CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 23, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.*

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Aug.				
25	Dredging	Wilmington, Del	S	8-16
25	Boilers	Chicago, Ill	P. & S	8-23
*27	Pumping machinery	Winnipeg, Man	P., S. & B. S	8- 9
*28	Bridges	Philadelphia, Pa	P., S. & B. S	8-16
*30	Excavating, Concrete wall	Ithaca, N. Y	S	8-16
*30	Boilers and chimney	Galveston, Tex	S. & B. S	7-26
*30	Canals and ditches	Williston, N. Dak	P. & S	7-12
*30	Tunnel	Salt Lake City, Utah	P., S. & B. S	6-21
Sept.				
1	Storage works	Conconully, Wash	P., S. & B. S	7-26
1	Pumpwell, etc	Charleston, N. C	S	8-16
1	Wiring and lighting	Charleston, S. C	S	8-16
4	Officers quarters	N. Chicago, Ill	S	8-23
*7	Bridge	Portland, Ore	P., S. & B. S	8-16
10	Electric pumps	Buford, N. Dak	P., S. & B. S	8- 9
*10	Boilers	Asbury Park, N. J	P. & S	8-23
*17	Dam	Hermiston, Ore	P., S. & B. S	6-26
*11	Canals, etc	Williston, N. Dak	P., S. & B. S	7-19
15	Hotel bldg	Manila, P. I	S	3-29
*18	Portland cement	Portland, Ore	S	7-26
Oct.				
*1	Lock	Donaldsonville, Pa	P. & S	7- 5
*15	Steel wharf sheds, railways	Manila, P. I	P. & S	7-19

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*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place. On file.	See issue.
Aug. 25	Power plant, Eugenia Falls, Ont	Aug. 23
Aug. 27	Equipment, Delhi, Ont	Aug. 23
Aug. 29	Power plant, Indianapolis, Ind	Aug. 23
Aug. 30	Fixtures, New York, N. Y	Aug. 16
Aug. 31	Electric light plant, Staples, Minn	Aug. 23
Sept. 6	Power-house, etc., Georgetown, Ohio	Aug. 16
Sept. 10	Electric pumps, Buford, N. Dak	Aug. 9
Sept. 10	Electric mchny, Williston, N. Dak	July 19
	Advertised, Eng. News, July 19 to Aug. 16.	
Sept. 12	Transformer plant, Chicago, Ill	July 26
Sept. 12	Transformer substation, Chicago, Ill	Aug. 9
Sept. 18	Lighting, Pottsville, Pa	July 12
Sept. 20	Lighting, Anniston, Ala	Aug. 23
Sept. 30	Electric light plant, Malvern, Ark	Aug. 23

BRIDGES.

At once	Steel bridge, Mexico	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 5.	
Aug. 24	Superstructure, Holland Landing, Ont	Aug. 16
Aug. 24	Bridge, Priceville, Ont	Aug. 16
Aug. 24	Bridge, Casper Valley, Va	Aug. 23
Aug. 25	Bridge, Bradrick, Ohio	Aug. 16
Aug. 25	Bridge, Huntley, Mont	Aug. 2
Aug. 27	Three bridges, Wichita, Kans	Aug. 9
Aug. 28	Bridges, Philadelphia, Pa	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 28	Two bridges, Hamilton, Ohio	Aug. 23
Aug. 28	Bridges, etc., Geneseo, Ill	Aug. 23
Aug. 30	Piers, Parkersburg, W. Va	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Aug. 30	Tile work, New York, N. Y	Aug. 16
Aug. 30	Two bridges, New Philadelphia, Ohio	Aug. 2
Aug. 31	Bridge superstructures, Brazil (Foreign)	Aug. 23
Sept. 1	Arch, Euclid, Ohio	Aug. 23
Sept. 1	Three bridges, Sydney, Ohio	Aug. 23
Sept. 4	Replacing bridge, Fort Lauderdale, Fla	Aug. 23
Sept. 4	Removing bridge, Creston, S. Dak	Aug. 9
Sept. 4	Bridge, Peoria, Ill	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 5	Bridge, Jefferson, Ohio	Aug. 23
Sept. 6	Bridges, Fargo, N. Dak	Aug. 23
Sept. 7	Bridge, Portland, Ore	Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.	
Sept. 7	Abutments, Grand Rapids, Mich	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 14	Bridge, Milwaukee, Wis	Aug. 23
Oct. 3	Bridges, etc., Bradford, R. I	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Oct. 8	Bridge, Daggett, Cal	Aug. 23

BUILDINGS.

Aug. 24	Door screens, Delaware City, Del	Aug. 2
	Advertised, Eng. News, Aug. 2 to 23.	
Aug. 25	Screen doors, Dodge, Ga	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Aug. 27	Court-house, Gallatin, Mo	July 19
Aug. 27	School building, Wetumka, Ind. T	Aug. 9
Aug. 27	City hall, Nokomis, Ill	Aug. 16
Aug. 27	Hotel, Atlantic City, N. J	Aug. 23
Aug. 28	Court-house, Gallatin, Mo	Aug. 2
Aug. 29	Plumbing, Albany, N. Y	Aug. 2
	Advertised, Eng. News, Aug. 2 to 23.	
Aug. 29	Repairs, Raleigh, N. C	Aug. 23
Aug. 30	Repairs and alterations, New York, N. Y	Aug. 23
Aug. 30	3-story C. S. P. S. lodge building, theater and gymnasium, Traverse City, Mich	Aug. 2
Aug. 31	Wiring and lighting, New York, N. Y	Aug. 23
Aug. 31	School building, Indianapolis, Ind	Aug. 23
Sept. 1	Jail, Fairfield, Cal	Aug. 16
Sept. 1	Office building, Washington, D. C	Aug. 16
Sept. 2	Court-house, San Jose, Cal	Aug. 16
Sept. 6	Residence, New Castle, Ind	Aug. 23
Sept. 7	Officers' quarters, West Point, N. Y	Aug. 9
	Advertised, Eng. News, Aug. 9.	
Sept. 15	Hotel, Manila, P. I	Mar. 29
Sept. 17	Painting and decorating, St. Paul, Minn	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 18	Painting, Aberdeen, S. Dak	Aug. 16
Sept. 18	School building, Bloomington, Ind	Aug. 23
Sept. 20	Fireproof doors, Washington, D. C	Aug. 16
	Advertised, Eng. News, Aug. 16 to Sept. 6.	
Sept. 22	Elec. subway system, West Point, N. Y	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.	

WATER SUPPLY AND IRRIGATION.

Aug. 24	Reservoir, Asheville, N. C	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 24	Extension, Shawano, Wis	Aug. 16
Aug. 24	Engine houses, New York, N. Y	Aug. 16
Aug. 25	Boilers, Chicago, Ill	Aug. 9
Aug. 27	Water pipe, etc., Winnipeg, Man	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Aug. 27	Pumps, Winnipeg, Man	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 27	Water-works, Omaha, Nebr	Aug. 16
Aug. 27	Filter beds, Sterling, Mass	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 27	Dam, Amherst, N. S	Aug. 23
Aug. 27	Tower and pipe, Bergen, N. Y	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Aug. 28	Water-works, Renovo, Pa	Aug. 16
Aug. 28	Artesian well, Newport, R. I	Aug. 2
Aug. 29	Culvert, etc., New York, N. Y	Aug. 23
Aug. 30	Reservoir, Fort Wingate, N. Mex	Aug. 2
Aug. 30	Boilers & chimney, Galveston, Tex	July 26
Aug. 31	Intake, wall, etc., Napa, Cal	Aug. 9
Sept. 1	Water pipe, Washington, D. C	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 1	Pump well, etc., Charleston, N. C	Aug. 16
Sept. 1	Stop cocks, Portland, Ore	Aug. 23
Sept. 1	Open well, Sioux Falls, S. Dak	Aug. 23
Sept. 4	Water-works supplies, St. Louis, Mo	Aug. 23
Sept. 4	Water supply, Bartonville, Ill	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 4	Water-works, Malta, Ohio	July 26
Sept. 5	Two reservoirs, New Orleans, La	June 21
	Advertised, Eng. News, June 21 to Aug. 30.	
Sept. 6	Water mains, Bismarck, N. Dak	Aug. 16
Sept. 8	Excavating, White Plains, N. Y	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.	
Sept. 10	Boiler, Asbury Park, N. J	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Sept. 10	Electric pumps, Buford, N. Dak	Aug. 9
Sept. 28	Pumping plant, Garden City, Kans	Aug. 2
	Advertised, Eng. News, Aug. 2 to Sept. 6.	
Oct. 8	Water-works, Lockport, N. Y	Aug. 23

SEWERAGE.

Aug. 24	Sewers, St. Louis Mo	Aug. 16
Aug. 21	Sewers, Canton, Ohio	Aug. 23
Aug. 24	Sewer, Passaic, N. J	Aug. 23
Aug. 24	Sewer conduit, Chicago, Ill	Aug. 23
Aug. 25	Sewers, Cooks Mills, Ill	Aug. 23
Aug. 27	Sewers, Lockland, Ohio	Aug. 2
Aug. 27	Sewer, Winona, Minn	Aug. 23
Aug. 27	Sewers, Menands, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 28	Sewers, Philadelphia, Pa	Aug. 23
Aug. 29	Sewer, Zanesville, Ohio	Aug. 23
Aug. 30	Sewer, Masillon, Ohio	Aug. 23
Aug. 31	Sewers, Girard, Ohio	Aug. 23
Aug. 31	Drain, Fort Meade, S. Dak	Aug. 23
Sept. 1	Sewers, Basin, Wyo	Aug. 2
Sept. 3	Sewers, Vicksburg, Miss	Aug. 16
Sept. 3	Sewers, Marcus Hook, Pa	Aug. 16
Sept. 4	Sewers, South Omaha, Nebr	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 4	Sewers, Plainfield, N. J	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Sept. 5	Sewers, St. Marys, Ohio	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Sept. 5	Sewers, Carrick, Pa	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 7	Sewers, St. Charles, Mo	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Sept. 7	Sewer pumps, St. Charles, Mo	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Sept. 7	Sewers, Utica, N. Y	Aug. 16
Sept. 7	Sewer gates, Manila, P. I	July 5
	Advertised, Eng. News, July 5 to Aug. 23.	
Sept. 11	Sewers, Covington, Tenn	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 12	Sewers, Dowagiac, Mich	Aug. 23
Sept. 12	Sewers, Denton, Md	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept 12	Sewer gates, Manila, P. I	Aug. 23
Sept. 27	Sewers, Brainerd, Minn	Aug. 9
No date	Sewers, Raleigh, N. C	Aug. 23

STREETS AND ROADS.

Aug. 24	Sidewalks, etc., Middletown, Ohio	Aug. 16
Aug. 25	Paving, Greenwich, Conn	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 25	Macadam, Bellefontaine, Ohio	Aug. 9
Aug. 25	Grading, etc., Concord, N. H	Aug. 23
Aug. 25	Grading, etc., Goffstown, N. H	Aug. 23
Aug. 27	Paving, etc., Cincinnati, Ohio	Aug. 9
Aug. 27	Sidewalks, Salem, N. J	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.	
Aug. 27	Road improvement, Albany, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 27	Paving, etc., New York, N. Y	Aug. 16
Aug. 27	Sidewalks, etc., Fort Bayard, N. Mex	Aug. 16
Aug. 28	Road improvement, Albany, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 28	Macadam, Cleveland, Ohio	Aug. 23
Aug. 28	Paving, Roanoke, Va	Aug. 23
Aug. 29	Paving, Baltimore, Md	Aug. 23
Aug. 29	Road, Columbus, Ohio	Aug. 16
Aug. 29	Paving, etc., Paducah, Ky	Aug. 16
	Advertised, Eng. News, Aug. 16 and 23.	
Aug. 30	Approaches, New York, N. Y	Aug. 23
Aug. 30	Concourse, New York, N. Y	Aug. 23
Aug. 30	Roads, Shelbyville, Ind	Aug. 23
Aug. 31	Paving, Louisville, Ky	Aug. 23
Aug. 31	Paving, Cadiz, Ohio	Aug. 16
Sept. 1	Road, Craig, Colo	Aug. 16
Sept. 1	Paving, Beloit, Wis	Aug. 23
Sept. 1	Paving, Chickasha, Ind. T	Aug. 23
Sept. 2	Roads, Rushville, Ind	Aug. 23
Sept. 2	Macadam, Haddonfield, N. J	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 2	Sidewalks, Delaware City, Del	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 3	Paving, Vicksburg, Miss	Aug. 16
Sept. 3	Macadam, Wilmington, N. C	Aug. 9
Sept. 3	Roads, Bedford, Ind	Aug. 23
Sept. 3	Roads, Petersburg, Ind	Aug. 23
Sept. 3	Roads, Rockville, Ind	Aug. 23
Sept. 3	Macadam, Concord, N. H	Aug. 23
Sept. 4	Road, Washington, Ind	Aug. 23
Sept. 4	Paving, Lorain, Ohio	Aug. 23
Sept. 4	Macadam, Babylon, N. Y	Aug. 23
	Advertised, Eng. News, Aug. 23.	
Sept. 4	Sidewalks, St. Paul, Minn	Aug. 16
Sept. 4	Gravel roads, Vincennes, Ind	Aug. 16
Sept. 4	Paving, Cohoes, N. Y	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 4	Flagging, Westfield, N. J	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Sept. 5	Curbing, Washington, D. C	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 10	Grading, etc., Newark, N. J	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.	
Sept. 12	Macadam, Haddonfield, N. J	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	

MISCELLANEOUS CONTRACTS.

Aug. 24	Breakwater, Charlos' Cove, N. S	Aug. 16
Aug. 24	Ditch, Center City, Minn	Aug. 16
Aug. 24	Removing piers, New York, N. Y	Aug. 16
Aug. 24	Building ferry terminal, New York, N. Y	Aug. 16
Aug. 25	Canal, Douglas, Wyo	Aug. 16
Aug. 25	Repairing wharves, San Francisco, Cal	Aug. 16
Aug. 25	Dredging, Wilmington, Del	Aug. 9
	Advertised, Eng. News, Aug. 9 to 23.	
Aug. 27	Water-tower, hook and ladder trucks, New York, N. Y	Aug. 23
Aug. 27	Fire alarm telegraph system, N. Y., N. Y	Aug. 23
Aug. 28	Breakwater, quay, Spain (Foreign)	Aug. 23
Aug. 28	Lathe, grinder, etc., Washington, D. C	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.	
Aug. 28	Naval supplies, Washington, D. C	Aug. 16
Aug. 29	Wrought-iron fence, New York, N. Y	Aug. 23
Aug. 30	Levee, New Orleans, La	Aug. 23
Aug. 30	Excavating, concrete wall, etc., Ithaca, N. Y.	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Aug. 30	Canals, etc., Williston, N. Dak	July 12
	Advertised, Eng. News, July 12 to 26.	
Aug. 30	Tunnel, Boston, Mass	June 21
	Advertised, Eng. News, June 21 to July 26.	
Aug. 30	Tunnel, Salt Lake City, Utah	June 21
Aug. 30	Dam, Columbus, Ohio	Aug. 9
	Advertised, Eng. News, Aug. 9 to 23.	
Aug. 31	Scrap iron, Panama	Aug. 9
Aug. 31	Drainage, St. Augustine, Fla	July 19
Aug. 31	Dipper dredge, St. Augustine, Fla	July 19
Aug. 31	Levee, Hillview, Ill	Aug. 16
Aug. 31	Dredger, barges, tug, Paraguay (Foreign)	Aug. 23
Sept. 1	Excavating channel, Joliet, Ill	Aug. 16
	Advertised, Eng. News, Aug. 16.	
Sept. 1	Air compressors, Charleston, S. C	Aug. 16
Sept. 1	Storage works, Concully, Wash	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Sept. 4	Railway supplies, Siam (Foreign)	Apr. 26
	Advertised, Eng. News, Apr. 26.	
Sept. 4	Cars, Bangkok, Siam (Foreign)	May 31
	Advertised, Eng. News, May 3 and 10.	
Sept. 4	Railway ties, Ottawa, Ont.	July 5
Sept. 4	Wharf, Sacramento, Cal	Aug. 23
Sept. 5	Dredging, Wilmington, Del	Aug. 23
Sept. 5	Ditches, Babcock, Wis	Aug. 16
Sept. 6	Dredging, Boston, Mass	Aug. 23
Sept. 10	Embankment, Boston, Mass	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.	
Sept. 10	Lock and dam, Winnipeg, Man	Aug. 16
Sept. 11	Timing devices, Washington, D. C	Aug. 16
Sept. 11	Canals, ditches, Williston, N. Dak	July 19
	Advertised, Eng. News, July 19 to Aug. 9.	
Sept. 11	Removing earth, boulders, Detroit, Mich	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 6.	
Sept. 12	Crematory building, Delaware City, Del	Aug. 16
	Advertised, Eng. News, Aug. 16 to 30.	
Sept. 12	Locomotives, Bangkok, Siam (Foreign)	May 31
	Advertised, Eng. News, May 3 and 10.	
Sept. 14	Dam, Columbus, Ohio	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.	
Sept. 15	Railway, Ecuador (Foreign)	Aug. 23
Sept. 15	Canal, levee, Grosse Tete, La	July 26
Sept. 15	Irrigation ditches, Hazen, Nev	Aug. 2
	Advertised, Eng. News, Aug. 2 to 30.	
Sept. 17	Dam, Hermiston, Ore	July 26
	Advertised, Eng. News, July 26 to Aug. 16.	
Sept. 18	Portland cement, Portland, Ore	July 26
	Advertised, Eng. News, July 26 to Aug. 9.	
Sept. 18	Naval supplies, Washington, D. C	Aug. 23
Sept. 18	Light-house, Vallejo, Cal	Aug. 23
Sept. 22	Dredging, Mobile, Ala	Aug. 23
Sept. 22	Elec. subway system, West Point, N. Y	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.	
Sept. 26	River dredging, Chicago, Ill	July 19
Sept. 26	Dredging plant, Chicago, Ill	July 19
Sept. 28	Portland cement, Garden City, Kans	Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.	
Oct. 1	Ditches, Portland, Ore	Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.	
Oct. 1	Lock, Donaldsonville, La	July 5
	Advertised, Eng. News, July 5 to Sept. 27.	
Oct. 3	Coal-handling plant, San Quentin, Cal	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.	
Oct. 15	Drains, Rio Grande do Sul, Brazil (Forn.)	May 31
Oct. 15	Steel sheds, Rys., Manila, P. I	July 19
	Advertised, Eng. News, July 19 to Aug. 30.	

Sept. 20	Chinese laborers, Panama	Aug. 23

CIVIL SERVICE EXAMINATIONS.

Aug. 29	Arch. Draftsman, Washington, D. C	Aug. 9
Aug. 29	Inspector of Sewers, Manila, P. I	Aug. 9
Aug. 29	Civil Engineer, Manila, P. I	Aug. 9
Aug. 29	Chemist, Manila, P. I	Aug. 9
Aug. 29	Engineer, Warmsprings, Ore	Aug. 9
Sept. 5	Engineer, Fort McKinley, Me	Aug. 9
Sept. 12	Engineer draftsman, Washington, D. C	Aug. 30
Sept. 12	Aid, Washington, D. C	Aug. 30
Sept. 19	Examiner, Washington, D. C	Aug. 30
Oct. 1	Construct. Engr., Washington, D. C	Aug. 30

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC COAST LINE.—This company and the Northwestern Railway of South Carolina will build about ten miles of new tracks in the freight yards at Sumter, S. C. E. B. Pleasants is Ch. Engr., at Wilmington, N. C.

BEAUMONT & GREAT NORTHERN.—We are officially advised that this company will let contracts about Oct. 15 for building the 17-mile extension from Onalaska to Livingston, Tex. Preliminary surveys are made and right-of-way and capital are secured. William Carlisle is Pres., Atchison, Kans.; and C. A. Noblitt is Ch. Engr., Onalaska, Tex.

CANADA.—A press report from St. John, N. B., dated Aug. 15, states that Henry R. Emmerson, Minister of Railways and Canals, has announced that it is the intention of the Canadian Government to purchase, within a short time, several branch railroads in this province which connect with the Intercolonial Ry., a line owned by the Government.

CAROLINA MINERAL RY.—A charter has been granted to this company in North Carolina to build and operate a line 40 miles in length from Charlotte, N. C., to Lancaster, S. C., through Mecklenburg and Union Counties, in N. C., and Lancaster County, in S. C., by way of the Colossus Gold Mining & Milling Co., in Union County; 35 miles of road will be in North Carolina. The capital stock is $200,000, the principal stockholders being J. F. Keller and D. H. Kulp, both of Pennsylvania. These are named as directors, as are also John A. Mipple, P. W. Baker, Israel G. Erb, S. N. Rootland, John N. Musses, all of Pennsylvania; and A. J. Moore, of Waxhaw, N. C. The Colossus Co. has a capital stock of $5,000,000.

CHICAGO, ZEIGLER & GULF.—We are officially advised that this company will let contracts for building a 25-mile extension, on completion of final survey. The line will extend due west from Zeigler Junction to Bryden. There will be three bridges needed. Right-of-way is partly secured. Preliminary survey is made. Joseph Leiter is Pres., Chicago; C. C. Whittier, Ch. Engr., Zeigler, Ill.

CHICAGO & ILLINOIS WESTERN.—A meeting is to be held to consider the increase of capital stock to $1,000,000, and the extension of the line from Gary, Ill., to Joliet. W. E. Phillips is Pres. and Gen. Mgr.; O. P. Chamberlin is Ch. Engr., at 184 La Salle St., Chicago.

COLORADO & SOUTHERN.—The Catskill branch is to be rebuilt and extended into New Mexico. H. W. Cowan is Ch. Engr., Denver, Colo.

CORVALLIS & EASTERN.—Surveys have been commenced for an extension which probably will be built next year from Idanha, Ore., across the central part of the state to Ontario, Ore., on the Snake River, a distance of 330 miles. A. B. Hammond, Pres., San Francisco, Cal.

COLORADO RAILROAD.—Incorporated in Colorado to build a railroad from Denver via Lafayette to Longmont and thence to Fort Collins, 65 miles; also from Berthoud east to a connection with the first-named line; from a point between Longmont and Fort Collins to New Windsor, ten miles; from Bellevue to Owl canyon, twelve miles; from Fort Collins to Waverly, 16 miles; from Waverly up Box Elder Creek, 15 miles; from near Plummer's Spur to a point in Weld County, nine miles; from a point on the Colorado & Southern between Fort Collins and Timnath south to Boyds Lake and thence to Loveland, 17 miles. The company is chartered in the interest of the Colorado & Southern, it is reported. Capital stock, $1,000,000. The incorporators are Thomas S. McMurray, F. E. Guy, T. E. Rowland, S. G. Arscott and E. I. Grenfill, all of Denver, Colo.

DAKOTA MIDLAND.—L. R. Giddings, Pres., 718 Guaranty Bldg., Chicago, informs us that contracts for building this line probably will be let Sept. 15. The railroad is to extend from Sioux City, Iowa, to Campbell County, S. Dak., about 500 miles. Noted on Aug. 9.

JENNINGS & SOUTHWEST LOUISIANA.—This company has been granted a charter in Louisiana to build a railroad from Lake Arthur northwest via Jennings to a connection with the Colorado Southern. New Orleans & Pacific. Capital stock, $1,000,000. Directors: S. L. Cary, Alba Heywood, O. W. Heywood, A. C. Wilkins, S. C. Morse, W. Krielow, E. P. Fox, George Hathaway and E. E. Rouson.

KALAMAZOO, GULL LAKE & NORTHERN.—Incorporated in Michigan with $200,000 capital to build a line from Kalamazoo, Mich., to Richland and Prairieville, with a branch to Gull Lake, a total of 20 miles. The stockholders are: J. T. Upjohn, Kalamazoo; H. K. Whitney, S. O. Howes and A. A. McKay, all of Battle Creek; M. P. Huick, A. H. Brown and E. B. Hosmer, of Chicago.

LAKE CREEK & COEUR D'ALENE.—Incorporated to build a railroad in the interest of the Oregon R. R. & Navigation Co., from Rockwood, near Spokane, Wash., to the south end of Coeur d'Alene Lake, in Kootenai County, Idaho. Capital stock, $100,000. Incorporators: J. P. O'Brien, William Crooks and W. R. Litzenberger, all of Portland, Ore.

LOUISVILLE & NASHVILLE.—The New York "Tribune" is authority for the report that the L. & N. R. R. Co. will build to Chicago from Louisville, Ky., by way of Indianapolis.

LANCASTER & NORTHERN.—Incorporated in Pennsylvania to build a railroad from a point on the Pennsylvania R. R. near Conestoga Creek to a point near Millway, on the Philadelphia & Reading, ten miles. Capital stock, $100,000. Directors: A. Dufworth, F. Reeder, Jr., F. C. Rockafellow, W. Coll and A. Sausser, of Easton, Pa. H. G. Seip is Pres.

MEDFORD & CRATER LAKE.—This road, which has been completed from Medford to Eagle Point, Ore., about twelve miles, has been acquired by Webber Bros., lumbermen, of Michigan, who will effect a reorganization and extend the road from Eagle Point to Butte Falls, near Prospect, on the upper Rogue River, it is said.

MOBILE & OHIO.—We are officially advised that the JOHN R. HARKLESS CONTRACTING CO., of Wickliffe, Ky., has contract for reduction of grades and elimination of curves on line between Jackson, Tenn., and Corinth, Miss., 55 miles, with a view to double-tracking it. Work is under way. C. F. Blue is Supt.-of-Way, at St. Louis, Mo.

PORT ANGELES & PENINSULAR.—Financial arrangements are said to have been made for building this road from Port Ludlow, Wash., to the Quillayute River. From Port Angeles the main line will be built with all possible speed to Lake Crescent, 20 miles west, and thence five miles along the shore of the lake. Simultaneously construction will be carried eastward 50 miles to Port Ludlow. It is expected that before 1907 these 75 miles will be in operation, and connected with Seattle and Everett by means of ferries. The sea distances are approximately 26 miles from Port Ludlow to Everett, and 35 miles from Port Ludlow to Seattle. Huge ferries of the type of the boats now carrying trains across the bay at San Francisco will be used for the immense lumber tonnage to be developed, while a fast, commodious boat will take care of the passenger traffic across the sound. From Lake Crescent the western division of the Port Angeles & Peninsular will be extended 53 miles to the Quillayute River. From Junction City on the Port Ludlow line the Port Angeles & Olympia will build 97 miles south to the state capital. The total mileage of the semi-circular line around the Olympics will be 211; 133 miles from Olympia to Port Angeles and 78 miles from Port Angeles to the Quillayute. To feed this main line from the timber tonnage to be drawn upon several laterals are to be run toward the heart of the Olympics. Lester Turner, of Seattle, Wash., is Pres. "Port Angeles is to be made the milling center of the system. To a plant now having a daily output of 750,000 shingles are to be added immediately the mills of three new companies, which promise a daily output of 250,000, 300,000 and 500,000 feet, respectively. This much as a beginning at an early day for what is intended to become the greatest lumber milling center in the state; perhaps in the world."

PENNSYLVANIA R. R.—This company plans improvements in bettering its freight traffic in Elizabeth, N. J., which include the construction of a new line through the city. Solid masonry construction will be used.

The Washington "Star" states that "plans have been drafted by the Pennsylvania R. R. Co. for improvements along the Delaware River front at Philadelphia to cost more than $5,500,000, to care for the increasing import and export business, upon the condition that the city will widen Delaware Ave. between Vine and Callowhill Sts. and provide more space for the railroad company's proposed improvements between Washington Ave. and Federal St. It was officially confirmed at the offices of the railroad that these plans were drafted more than two years ago, but have been held in abeyance pending action on the part of the city. The Pennsylvania management proposes to expend about $1,500,000 for piers, to be built between Vine and Callowhill Sts. Its plans provide for extending the bulkhead of the wharf now in use out to the port warden's line. Instead of having one pier as at present, the company proposes to construct four piers with a driveway around the sheds to be erected on them. Many tracks for handling carload lots of freight are to be laid, and every modern convenience provided for the benefit of shippers. Plans have also been perfected for the improvement of piers 34 and 35, near Washington Ave., as soon as the city's permission to remove the present buildings is given. The request of the grain shippers to erect a 1,000,000-bushel elevator at Federal St. will be granted whenever the city consents to such improvements. Plans for such an elevator were drafted when the enlargement of the Washington Ave. elevator was first considered, but the city officials declined to give their consent to the proposition, officers of the Pennsylvania contend. When the Pennsylvania R. R. directors meet in September appropriations covering all the wharf improvements will be asked. It will depend upon the city whether the construction work is begun this year or next, officers of the railroad asserted. For the benefit of the railroad company and the accommodation of the increased number of shippers, the railroad company wants to begin the work this year."

PENNSYLVANIA R. R.—Arrangements are said to have been made by the Pennsylvania R. R. Co. to make extensive tests of a new roadbed at Newport, on its middle division. The new system is known as the standard-ditch roadbed. Should the tests prove successful and the system adopted over the entire Pennsylvania lines, its introduction will involve the expenditure of immense sums of money. The first cost will be much greater than that of constructing an ordinary roadbed, but the engineers believe that the cost of maintenance will be much less, and that the new system will prove to be much more economical in the long run. Under the new system trenches will be dug along both sides of the road, and the tracks of heavy rails and ties will be put down on a firmly laid bed of at least 8½ ins. thick. The track will be sodded on either side to prevent washouts. Should the first experiments at Newport prove satisfactory, they will be repeated at other points on the system before the plan is adopted permanently.

PHILADELPHIA & READING.—Company has awarded a contract for grading and masonry for a second track to be laid between Quakake and Hazleton Junction, on the Catawissa branch. SMITH & CAMPION, contractors, of Mahanoy City, Pa., secured the award.

SANTA FE, LIBERAL & ENGLEWOOD.—Incorporated in Oklahoma to build a railroad from Englewood, Kans., to Des Moines, N. Mex., passing through Beaver County, Oklahoma. Capital stock, $6,000,000. Incorporators: Frank E. Jennison, New York; Jesse G. Northcutt and A. Watson McHendrie, Trinidad, Colo.; John Morrow and Thomas D. Lieb, Raton, N. Mex.

ST. MARY'S & WESTERN ONTARIO.—Citizens of St. Mary's, Ont., will vote upon proposition to loan $400,000 to this company to build a line from Ingersoll to Embro, giving St. Mary's direct connection with the main line of the Canadian Pacific Ry.

SEABOARD AIR LINE.—This company's freight yards at Wilmington, N. C., are to be enlarged it is said. W. L. Seddon is Ch. Engr., at Portsmouth, Va.

SOUTHERN RAILWAY.—W. H. Wells, Engr. of Construction, Washington, D. C., makes the following announcement regarding construction work on branches of this system: The cut-off between Mobile Junction and North Bessemer, Ala., 3.4 miles, has been completed, and a spur track 0.7 miles long from near Davis Mines, Ala., to the mines of the Pratt Consolidated Coal Co. has been completed. A spur track has been built for the Ware Shoals Manufacturing Co. near Barmore, S. C., 1.7 miles, and a spur track has been laid for the Atlas Coal Co., near Oakman, Ala., a distance of 2.39 miles. An extension of the South Knoxville spur, 3.14 miles, is being built to the works of the J. M. Ross Marble Co., and is practically completed. One mile of track has been laid on a 5-mile extension of the Littleton branch near Flat Top, Ala. The extension from Vardeman to Demra, Miss., 8.9 miles, has been completed, and a spur is being built for the Obey River Coal Co., near Obey, Tenn., 75 miles. On the Elizabeth branch of the Delta Southern 15.7 miles of track have been laid. On the Percy branch 10½ miles have been laid and five miles have been completed on the Itta Bena branch in Mississippi, which will be 19.1 miles long. The Ensley Southern Ry. has built a branch 0.8 miles long for the Tutwiler Coal Co., near Short Creek, Ala. The Cumberland Valley Ry. has completed 3.04 miles of track in Campbell County, Ky., and 6.07 miles in Claiborne County, Tenn. In Kentucky the same company has completed 1.7 miles of track in Bell County.

Surveys have been made by this company with a view to reducing grades and curves between Macon and Atlanta, Ga.

A survey has been made for a line from Crossville, Tenn., to coal lands in the Flynn Cove field in Cumberland County, 15 miles, with maximum grade of 1.25%, and maximum curvature of 6°; line due south to Lantana to head of Potts Creek and along Big Laurel to Jumping Creek.

STATENVILLE RY.—This company has applied for a charter in Georgia to build a railway from Haylow to Statenville, 14 miles. Garbutt Bros., J. F. Bailey and E. K. Wilcox, of Valdosta, Ga., are interested.

TEXAS SOUTHERN.—The public sale of this railway, from Winnsboro, Tex., to Marshall, 109 miles, which is in the hands of a receiver, has been postponed indefinitely. It is stated that the management will soon be able to discharge all indebtedness and resume formal control. Arrangements have been made for an early extension of this road north from Winnsboro to Paris, Tex., about 60 miles, and also south from Marshall to Newton, about 125 miles. From Paris it is proposed to ultimately extend the road into the coal regions of the Indian Territory. L. E. Walker is Pres. and N. P. Turner is Ch. Engr., at Marshall, Tex.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

MONTPELIER, VT.—The Deerfield Valley Railroad Co. has been incorporated in this state with a capital stock of $300,000. The company is organized for the purpose of constructing 30 miles of railroad in the towns of Wilmington, Searsbury, Glastonbury, Sunderland, Manchester, Somerset and Stratton. The principal stockholders are: A. M. Brandon, of Brandon, Vt., and W. H. Wood, of Cambridge, Mass.

ROCKVILLE, CONN.—The contract for building the Stafford & Rockville electric line has been awarded by the Consolidated Ry. Co to FRED T. LEY & CO., of Boston, Mass. The first lot of 8,000 ties must be delivered before Sept. 1.

SYRACUSE, N. Y.—Thomas H. Mather, Ch. Engr. of the Syracuse, Lake Shore & Northern R. R. Co., advises us that contracts will be let about Sept. 1 for grading and bridging on an extension from Baldwinsville to Fulton, N. Y., via Phoenix, 15 miles. Surveys are made but right-of-way is not yet secured. C. D. Beebe is Pres., at Syracuse.

BUFFALO, N. Y.—Henry J. Pierce, Ellicott Sq., Pres. of International Ry. Co., according to the Buffalo "Enquirer," has announced the organization of the Frontier Railway Co. The directors are H. F. Ramsdell, Samuel Ellis, Walter Aspinwall, H. W. Root, George A. Bensley, J. H. Lascelles, H. J. Auer, Clifford Hubbell and M. H. Denison. The cost of the line, including the private right-of-way, the line in Niagara Falls City and equipment, will amount to $2,000,000. "The Frontier Electric Railway Company," said Mr. Pierce, "has been organized as a subsidiary company of the International Railway Co., which will own all of its stock. The new company will construct a modern, high-grade, high-speed, double-track electric railway, mainly on its own right-of-way, from Buffalo to the entrance of the new bridge, for which charters have already been obtained from the State of New York and the Dominion of Canada and which will be built over the Niagara River, the American approach of which will be at the foot of Niagara St. in Niagara Falls, N. Y. The new railroad will be built and equipped according to the highest standards of modern electric interurban railway construction, and will not only afford rapid transit to the inhabitants of Niagara Falls, Buffalo and intervening points, but also of Lockport, and other cities and towns west of it. It is proposed to double-track the existing line between Lockport and Tonawanda, [illegible] only to take care of the ever-increasing traffic from Lockport to Buffalo and Niagara Falls, but also to provide for the very [illegible] increase in traffic which will immediately follow the completion of the electric railway now being constructed between Rochester, Brockport, Medina, Albion, Middleport and Lockport.

"The new railway company will also make connection at the new bridge at Niagara Falls with the fast electric railroad owned by the MacKenzie-Mann-Ni[illegible] syndicate running from Toronto through Hamilton to Niagara Falls, the rights-of-way for which have been acquired and the contracts for the construction of which are now about to be let. The organization of this new company marks as distinctly an era in the development of electric railroads as did the construction by the New York Central Railroad Co. some years ago of its four-track railroad. Upon the completion of the new line between Buffalo and Niagara Falls, the International system will have the only four-track interurban electric railway in the world. This four-track electric railroad is indicative not only of the great general growth and prosperity along the Niagara frontier, but also of the supremacy of this locality in the application of electric transportation. It will only be a matter of months when passengers from Rochester and intervening points between Rochester and Lockport, as well as from Toronto and Hamilton and from Dunkirk and Erie, will be brought without change of cars into the heart of the city of Buffalo. The importance and advantage of this to the business and other interests of the city of Buffalo cannot be over stated." G. A. Harvey is Elec. Engr., Ellicott Sq.

SEAGIRT, N. J.—The Governor has signed a bill authorizing the attorney-general to enter into an agreement with the Atlantic Coast Electric Railway Co., of Asbury Park, for the construction of a trolley road upon parts of the state camp-grounds at Seagirt. The term of this agreement is not to exceed 20 years. The efforts of trolley capitalists of Monmouth County to get a through trolley road from the present end of the Atlantic Coast Electric Railway Co.'s system at Seagirt have been unsuccessful, because the New York & Long Beach R. R. Co. would not give permission to cross its tracks, and the trolley could not go over the state property without a franchise from the Legislature. Charles E. Hereth is Supt., 26 Broadway, New York; S. F. Hazelrigg is Pres., Gen. Mgr. and Pur. Agt., at Asbury Park.

GREENCASTLE, PA.—The Chambersburg & Western Electric Ry. Co. will apply for incorporation on Aug. 28, with $50,000 capital, to build a road from Greencastle, Pa., northward to Chambersburg, ten miles. It is expected to later extend from Chambersburg to Shippensburg, and from that point through Cumberland County to Harrisburg, about 58 miles from Chambersburg. Surveys are under way.

MILLERSVILLE, PA.—We are officially informed that a company, under the name of the Manor & Columbia Electric Ry. Co., will build an electric railway 18 miles long, from Millersville to Washington Borough and Columbia, returning to Millersville. Surveys are made and capital for building obtained. William Morris, of Columbia, is Pres.; William McDermott, of Lancaster, Pa., is Ch. Engr.

PITTSBURG, PA.—Contracts for grading and construction of one-half of the route of the Pittsburg, Harmony, Butler & New Castle Ry. Co. have been awarded by President R. H. Boggs, it is reported. It is expected that by June 1, 1907, cars will be in operation. The contract has been awarded in six sections, one of which has been given to W. W. KELLY, of McKeesport. The cars will run from Fifth Ave. and Market St., Pittsburg, to New Castle, 51 miles, in two hours, and to Butler, 37½ miles, in one hour and forty minutes. Right has been obtained to operate over the lines of the Pittsburg Ry. Co. in Allegheny and Pittsburg.

FREDERICK, MD.—Officials of the Frederick & Middletown Ry. Co. are reported to have made a tour of inspection over the route surveyed for the proposed extension of the road to Jefferson. Two routes have been surveyed—one following the ridge of Catoctin Mountain and the other running down in Middletown Valley. The route along the mountain is the most satisfactory, and the work of constructing the extension is expected to begin shortly. The new line will be built by the Braddock Heights & Jefferson Railroad Co., and as soon as it is completed immediate steps will be taken to continue the line on to Brunswick. G. W. Smith is Pres., Gen. Mgr. and Supt., and Pur. Agt. for F. & M. Ry Co., at Frederick. Recently, J. Roger McSherry announced that the Jefferson & Braddock Heights Ry. Co. of which he is an incorporator, proposes to build from Jefferson to Braddock Heights, Md., five miles, connecting there with the Frederick & Middletown R. R. The Jefferson & Braddock Heights Ry. Co. has been incorporated to build a line to connect the two points named in the title. The incorporators are J. Roger McCherry, James E. Ingram, Frank H. Callaway, Robert P. Graham, Thomas H. Haller, Emory L. Coblentz and Richard P. Ross.

ROANOKE, VA.—J. W. Hancock, Gen. Mgr. Roanoke Ry. & Electric Co., advises us that this company has applied for a franchise for a 1-mile extension of one of its lines, which runs from this city into Salem, eight miles distant. This matter is still before the Salem Council and has not yet been granted.

RICHMOND, VA.—The Virginia Passenger & Power Co., which controls the Richmond & Petersburg Electric Ry. Co., is reported to be making a survey for the improvement of its line from Richmond to Petersburg, Va. Ross Lowry is Asst. Engr., at Richmond.

FAYETTEVILLE, W. VA.—Contract is reported to have been awarded to KING, KILLOUGH & CO., of Philadelphia, to build the proposed Fayette & Fayetteville Electric Ry.

about 2½ miles long. Philip Konrad is Engr. A. D. Roberts and Ben D. Koontz, of Fayetteville, are interested.

FAYETTEVILLE, N. C.—W. D. McNeill and associates have been granted a franchise for a street railway in Fayetteville; also to the wharf on the Cape Fear River and to Hope Mills, six miles from Fayetteville. Wm. E. Ki[illegible]y, Fayetteville, is interested.

CHARLOTTE, N. C.—E. D. Latta, Pres. of the Charlotte Consolidated Construction Co., is reported as saying that the line to the Catawba River will be built within 12 months. From Charlotte it will be about 12 miles long. The line now under construction to Chadwick and Lakeview Park will reduce the distance about three miles.

MOBILE, ALA.—H. M. Byllesby & Co., Inc., Engrs., 171 La Salle St., Chicago, have been appointed engineers and managers of the Mobile Electric Co. A new modern power house will be erected immediately and the lines of the company extended and rebuilt.

MONTGOMERY, ALA.—We are advised that nothing has been done yet in the matter of constructing an electric railway from Montgomery to Enterprise and Geneva, as noted in Engineering News on July 5.

AGRICULTURAL COLLEGE, MISS.—Franchises have been granted to C. E. Ard, Starkville, Miss., for an electric railway from the Agricultural and Mechanical College, at this place, to Starkville, 2½ miles long.

GALLIPOLIS, OHIO.—Col. Albert C. Boone, of Zanesville, Ohio, the promoter of the Gallipolis, Huntington, Ironton & Portsmouth and Columbus Tramway Co., writes us that about Oct. 1 engineers will be put in the field to lay out the several lines of this company, radiating from Gallipolis. According to Col. Boone, there will be four divisions of the system, as follows: Ohio River Division—Gallipolis to Ironton and Portsmouth; Cincinnati Division—Gallipolis to Waverly and Hillsboro; Columbus Division—Gallipolis to McArthur, and Lancaster to Columbus, and the Wilson Division—Gallipolis to Jackson and Wellston. Map of proposed operations by this company in Southeastern Ohio is on file at office of Engineering News, New York.

EAST ST. LOUIS, ILL.—W. J. Crocken, C. E., East St. Louis, advises us that the East Side Belt Ry. is making surveys only at present, and that nothing is definitely settled regarding construction. As previously noted in Engineering News, this company has been incorporated in Illinois, with headquarters at Centerville, Ill., for the purpose of building a belt line around East St. Louis. The proposed line will start on the banks of the Mississippi River about four miles above East St. Louis, thence around the city to a point near Cahokia, about five miles below East St. Louis. Ed. L. Thomas, of Belleville, Ill., is one of the directors. The preliminary survey is being made by Mr. Crocken.

BOONE, IOWA.—The Boone, Webster City & Ft. Dodge Interurban Ry. Co. has been incorporated. A new line is to be constructed at once. The incorporators are John C. Regan and D. E. Regan, of Des Moines; E. E. Hughes, John S. Crooks, J. H. Herman, M. J. Railly, T. L. Jones and John L. Gaephinger, of Boone, and Frank A. Sackett, of Webster City. The officers are: Pres., E. E. Hughes; Vice-Pres., John C. Regan; Secy., John S. Crooks; Treas., J. H. Herman. Noted last week.

ST. LOUIS, MO.—The North St. Louis & Suburban Railway Co. has been incorporated to build a line, one mile long, on the Halls Ferry road from Broadway to the city limits and thence through the county to Jennings and Ferguson. The stockholders are John Scott, James Scullin, Edward J. Scott, John R. Scott, Thomas W. Murphy, William Scullin, John Scullin (in trust for James Scullin), and Thomas W. Murphy.

ARGENTA, ARK.—Under the terms of a franchise granted by the City Council to the Argenta Ry. Co., this corporation has been given the exclusive right to construct, maintain and operate a street railway system in the city of Argenta for a period of 50 years. The Argenta Ry. Co. has filed articles of incorporation. The corporators named in the articles are: J. M. Griffin, Pres., and John G. Vogel and James P. Faucette. The capital stock of the company is placed at $400,000, of which $300 has been subscribed and paid, $100 by each of the three corporators.

FORT WORTH, TEX.—The Fort Worth & Arlington Heights Traction Co., the Fort Worth & Rosen Heights St. Ry. Co. and the Citizens' Light & Power Co., all of Fort Worth, are reported to have consolidated under the name of the Citizens' Ry. & Light Co., with Warren Bicknell, of Cleveland, Ohio, as Pres. Improvements are projected, including an interurban railway to Mineral Wells, about 50 miles.

MINERAL WELLS, TEX.—We are officially advised that the Howard-Burke Engineering Co., of Monroe, La., has been awarded contract for engineering for the new electric railway, power, light and ice plant in Mineral Wells, Tex., and is in the market for supplies. Plans and specifications will be completed and offered to bidders about Sept. 15. Company will want cars, machinery and construction material; rails have been purchased. Edmund Burke is Ch. Engr.

PORTLAND, ORE.—In regard to the subway and street car system project for East Portland, noted on June 28th, we are advised by Thomas McClusker and L. Y. Keady that nothing will be done for some time, as franchises are now pending before city council. Permission must also be secured from the War Department. The plan proposed is for constructing subway and car lines within city, connecting with outside lines, to be about 36 miles in length. Capital is secured, but a company has not been incorporated.

EDMONTON, ALTA.—We are officially informed that probably no steps will be taken until next spring in the matter of proposed municipal electric railway on Jasper Ave. to First St. Estimated cost is $66,000. P. P. Kelly is City Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is proposed that a municipal lighting plant be erected here.

WORCESTER, MASS.—The Denholm & McKay Co. is to erect a power-house and chimney in the rear of the Boston Store. The power-house is to be of brick, one story high, 42½ × 59 ft., with concrete foundations. Frost, Briggs & Chamberlain, 518 Main St., are Archs. The chimney is to be 100 ft. high with a 10-ft. diameter. Thompson & Gallagher, 339 Main St., Archs. Estimated cost of power-house, $5,000, and of chimney, $1,600.

THOMPSONVILLE, CONN.—A gas plant will be erected by the recently formed Northern Connecticut Light & Power Co. to supply the towns of East and South Windsor, Windsor Locks, Somers and Enfield, towns in the vicinity of Hartford, Conn. Of the two companies merged, the Windsor Locks Electric Light Co. has $40,000 stock and $70,000 bonds, and the Enfield Gas Co. has $15,000 stock. The old electric plant at Windsor Locks will be replaced by a new one, and work will probably begin this fall.

DANSVILLE, N. Y.—The Dansville Gas & Electric Light Co. has sold its plant to A. B. Beadle, of New York, N. Y.; M. A. Maxwell, of Easton, Pa., and W. W. Levering, of Philadelphia, Pa. It is reported that about $20,000 is to be spent in improvements which will include the installation of new engines, dynamos and new street arc lamps.

WEST POINT, N. Y.—Bids are asked by the Quartermaster, U. S. Military Academy, until noon, Sept. 22, for construction of an electrical subway system. (Advertised, Engineering News.)

ORANGE, N. J.—The Council has decided to build a municipal street lighting plant to cost $70,000.

CHESTER, PA.—Capitalists represented by John L. Garrett, a local attorney, have made a proposition to the Light Committee of the Council to erect a $100,000 electric light plant, and at the expiration of ten years to turn the plant over to the city.

BALTIMORE, MD.—A large addition is to be built to the power plant of the Consolidated Gas, Electric Light & Power Co. The contract has been awarded to the BALTIMORE FERRO-CONCRETE CO.

ALEXANDRIA, VA.—Bids have been received by E. E. Mauderville, Engr., Land Title Bldg., Philadelphia, for the erection of an electric light plant for the Alexandria Electric Light Works. It is to be a 1-story, brick and steel building, of fireproof construction. Estimated cost, $75,000.

ALEXANDRIA, VA.—A contract has been entered upon by the City of Alexandria through Fred J. Paff, Mayor, and the Alexandria Electric Light Co., through H. W. Mathews, Pres., and E. W. Mandeville, Secy.-Treas., providing for the lease of the electric light franchise for the period of 30 years. According to the terms of the contract, $5,000 was paid to the city by the corporation. The company has recently been incorporated under the laws of the State of Virginia, and as soon as a suitable site has been determined upon will commence the erection of the power house, which is to cost $75,000. Contracts for some of the machinery have already been awarded. It is expected that the plant will be in operation by next November.

CHARLESTON, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded a contract for the construction of a power house building at the Charleston Navy Yard to the SIMONS-MAYRANT CO., of Charleston, at $140,270. Bids were opened July 28.

AUGUSTA, GA.—The Anthony Shoals Power Co. has been granted a franchise to furnish electric light for a period of 30 years. Thos. Fitzpatrick is Pres.

WINTER GARDEN, FLA.—The West Orange Electric Co. has been formed by W. Percy Reames and G. W. Bray to establish electric light plant. A frame building 16 × 24 × 10 ft. will be erected, and 15 HP. boiler, 10 HP. engine and 8 KW. 500-volt 2,400 C. P. generator will be installed.

BESSEMER, ALA.—It is reported that the Woodward Iron Co. is going to erect an electric plant.

ANNISTON, ALA.—Bids are asked until Sept. 20 by Thos. E. Kilby, Mayor, for furnishing and lighting 100 electric arc lights until 10 p. m. and all dark nights after said hour for a period of 10, 20 and 30 years from July 1, 1908, and for maintaining same; also a franchise for the privilege of supplying electric current for all purposes to corporations and private citizens.

JACKSONVILLE, ALA.—J. W. JOURNEY is stated to have secured the contract for the building, and LUDWIG & CO., of Atlanta, Ga., the contract to install the works, for the electric light plant in this city. The contract for furnishing the material has also been awarded.

ALGOOD, TENN.—The Algood Electric Light Co., capital $15,000, has been chartered here. Incorporators: J. A. Epperson, W. P. Pennock, C. H. Rickman, Phil Wheat and H. L. Norris.

COLUMBUS, OHIO.—An addition to the power-house of the Columbus Railway & Light Co. is to be built in Spring St., between Cussins St. and the railroad. The building permit, issued last week, estimates the structure to cost $7,500. E. K. Stewart, Mgr.

FREMONT, OHIO.—The Little Miami Light, Heat & Power Co. was recently organized and incorporated. The company contemplates the construction of a series of dams in the Little Miami River between Plainville and Morrow, in order to furnish power for a power plant which is to furnish power, light and heat for the neighboring towns.

INDIANAPOLIS, IND.—Bids are asked until 10 a. m., Aug. 29, by the Board of Public Works, for erecting the power plant in the new power-house at the City Hospital.

NOBLESVILLE, IND.—The Noblesville Hydraulic Co. has been granted a 25-year franchise to furnish electricity in this city. The company will now complete the dam it started several years ago, which they were prevented from completing on account of an injunction held against them. The dam will cost $125,000.

FRANKLIN, IND.—The Franklin Water, Light & Power Co. has been purchased by the Ferris Brothers, owners of lighting water plants at Yankton, S. Dak., and Eldorado and Osage, Iowa. Thomas Ferris, now managing the Osage plant, will come to Franklin to take charge of the plant. The plant will be improved and new machinery installed.

IRON MOUNTAIN, MICH.—A contract for building the plant for the new gas company here has been awarded to the WARREN & PETTEGREW CO., of Fox Lake, Wis.

OQUAWKA, ILL.—F. S. Moore, former Supt. of the city electric company at Monmouth, has been granted a franchise to furnish the city with electric power for street lighting purposes.

PEORIA, ILL.—Emil G. Schmidt, Gen. Mgr. of Peoria Gas & Electric Co., has awarded contracts for the improvements mentioned in issue of Aug. 16. The contract for erecting the smoke stack was awarded to the WEBER CONCRETE CO., of Chicago. The contract for furnishing the boilers was awarded to the OIL CITY BOILER CO., of Oil City, Pa.; the chain grates to the GREENE CHAIN GRATE CO., of Chicago, and the pump to the WORTHINGTON CO., of Chicago.

ROCKFORD, ILL.—The contract for improvements to be made by the Rockford Gas, Light & Coke Co. has been awarded to ALEX CRABB. The addition is to be two stories high and 150 ft. long. S. P. Curtis, Mgr.

DE PERE, WIS.—It is reported that a gas plant will be erected here. The De Pere Electric Light & Power Co. has asked for a franchise to furnish gas to the city of De Pere. R. J. McGeehan, Mgr.

DES MOINES, IOWA.—The Des Moines City Ry. Co. is preparing to build a new central power house to cost $200,000. It will be run in addition to the present plant, and the current from the new dynamos will be used for power on a number of proposed city extensions and interurban lines, as well as supplying additional power needed for operating the present mileage. The new plant will be located adjacent to the old power house at East Fourth St. and the river. E. Sargeant, of Chicago, an electrical engineer, who has prepared rough plans and specifications for the new plant, estimates that the machinery alone will cost $150,000.

STAPLES, MINN.—Bids are asked by the Village of Staples until 8 p. m., Aug. 31, for water-works and electric light plant.

KANSAS CITY, KANS.—The Wyandotte Suburban Gas Co. has applied for a charter. The purpose for which the company was organized is to supply gas to the suburbs of Kansas City. The company has a capital of $500,000, and its incorporators are J. B. McGowan, Kansas City, Mo.; C. L. Brokaw, C. K. Wells and G. B. Allen, Kansas City, Kans.; and W. F. Douthir, of Haverford, Pa.

MITCHELL, S. DAK.—The Mitchell Gas Co., F. M. White, Mgr., will enlarge its plant.

CAMERON, MO.—See under Water Supply and Irrigation.

MALVERN, ARK.—Bids are asked until Sept. 30, by C. W. Turner for the erection of an electric light plant to replace the one recently destroyed by fire. Estimated cost, $9,000.

CHICKASHA, IND. T.—Beardslee & Brockway, Lincoln, Nebr., are engineers in charge of construction of dam for the Chickasha Water-Power Co. The company is going to develop the water-power of the Washita River. It is proposed to build a dam 1,000 ft. long, 100 ft. to be 30 ft. high, and 900 ft. to average 7 ft. high; to be constructed of stone and cement or steel and cement. About 1,000 HP. will be developed and transmitted to Chickasha by 66,000-volt three-phase A. C. electric current. C. E. Ross is Secy. and Treas.

MUSKOGEE, IND. T.—A municipal dam is to be constructed across the Grand River, from which power will be obtained, to replace the steam power now being used, to operate the municipal plants.

DALLAS, TEX.—The Dallas Light & Equipment Co. has been chartered, with a capital of $100,000. Incorporators are T. L. Camp, J. B. Nabors, C. E. Bird, J. A. Barnhard, of Dallas, and A. P. McArthur, of New York.

LAFAYETTE, COLO.—The Northern Colorado Power Co. will erect a $100,000 light and power plant here. William J. Barker and Joseph J. Henry are interested in the company.

SPOKANE, WASH.—The Pend d'Oreille Development Co. is preparing to construct a plant at Big Falls, a mile and half below Metaline on the Pend d'Oreille River. The company contemplates the construction of a plant at a cost of $750,000 to supply electricity for the operation of all mines and electric railroads in that vicinity; also to transmit power to Spokane if necessary. The incorporators are: D. T. Ham, W. S. Yearsley and E. A. Torrence, all of Spokane, Wash.

TACOMA, WASH.—H. B. Wales and Attorney Merrick, of Grand Rapids, Mich., are in the city, making arrangement for the establishment of a gas plant. H. B. Wales is Gen. Mgr. for the Dean Syndicate, the new owners of the Tacoma Gas Co.

PORTLAND, ORE.—The Portland & Sandy River Co. has been incorporated with a capital of $100,000. It will construct an electric light plant on the Sandy River. The company has a franchise to light the town of Gresham. Among the incorporators are Dan J. Malarkey and M. F. Donahoe.

OROVILLE, CAL.—A municipal water, gas and electric light plant will be established here.

SALT LAKE CITY, UTAH.—The Institute Electric Co. has been granted a new franchise by the Board of County Commissioners. The company will construct a plant for generation of power and light throughout the county.

OGDEN, UTAH.—Simon Bamberger, Pres. of the Salt Lake & Odgen R. R. Co., is seeking a site to establish a $100,000 power plant.

COTTONWOOD, IDAHO.—It is reported that a light and water plant is to be erected here.

DELHI, ONT.—Bids are asked until Aug. 27 by the Delhi Light & Power Co., John S. Fielding, Consult. Engr., for (1) turbine water wheels, governor, etc., (2) generators, exciters, switch panels etc., (3) 2½ miles of transmission line, and (4) distribution line.

EUGENIA FALLS, ONT.—Bids are asked until Aug. 25 by the Georgian Bay Power Co., Ltd., Thomas McLaughlin, Secy.-Treas., for the construction of a dam and power-house.

GODERICH, ONT.—A by-law has been passed granting a charter to the Maitland Power Co. The company will erect a $150,000 plant on the Maitland River. Willis Chapman, 103 Bay St., Toronto, is designing Engr.

KENORA, ONT.—The contract for the erection of an electric plant to be erected here by the city has been let to the CANADIAN GENERAL ELECTRIC CO., and the MONTREAL LIGHT, HEAT & POWER CO. D. H. Currie is the official in charge.

NELSON, B. C.—Bids are asked by the St. Mary River Power Co. for lighting the towns of Cranbrook, Fort Steele and Movie, besides the Kimberly and neighboring mines. Herman & Burwell, Vancouver, are designing engineers.

SIDNEY, N. S.—The Dominion Coal Co. will erect an electric plant at the Sidney mines; the equipment will consist of four alternating machines for pumping and lighting the mines.

LACOMBE, ALTA.—The Blind Man River Electric Co. will erect an electric plant at a cost of $22,000. W. Burriss, official in charge.

CALGARY, ALTA.—The Canadian R. R. Co. will erect a plant to develop 65,000 HP. here. It will use water power for its plant. J. S. Dennis is Designing Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

WEST NEWTON, MASS.—The contract for constructing bridge over Charles River, at Newton Lower Falls has been awarded to W. H. MAGUE CO., Washington St., West Newton, and not to William H. Morgan, as published in Engineering News on Aug. 16.

BRADFORD (Newport post-office), R. I.—Bids are asked until 11 a. m., Oct. 3, by the Bureau of Equipment, William S. Cowles, Ch., Navy Department, Washington, D. C., for constructing two steel girder bridges, one steel through truss bridge, timber trestle and cable railway track for the U. S. Naval Coal Depot, Narragansett Bay, Bradford. (Advertised, Engineering News.)

WOONSOCKET, R. I.—The CUMBERLAND CONSTRUCTION CO., of Providence, has been awarded contract to build a concrete and steel bridge over the trench on Main St., at $4,751. Frank H. Mills is City Engr.

PHILADELPHIA, PA.—Plans, specifications and bidding sheets for constructing five bridges in Philadelphia, as advertised, are on file at the office of Engineering News, New York. Bids are asked until Aug. 28.

ANNAPOLIS, MD.—LAUER & HARPER CO., Westport, Baltimore, has contract for constructing steel bridge over Spa Creek, connecting Annapolis with Eastport. The bridge will have concrete substructure, steel superstructure, and will be 1,000 ft. long.

COPPER VALLEY, VA.—Bids are asked until Aug. 24 by the Board of County Commissioners, at Floyd, for constructing a steel bridge 170 ft. long and 12 ft. wide across Little River at Copper Valley.

PARKERSBURG, W. VA.—Bids are asked until 1 p. m., Aug 30, by the Parkersburg and South Side Bridge Co., Parkersburg, for constructing four concrete piers for a bridge over Little Kanawha River. Bids are also asked for excavating and for constructing earth approach. (Advertised Engineering News.)

GRAFTON, W. VA.—JOSEPH FUCEY has contract for building bridge on the Grafton and Parkersburg branch of the Baltimore & Ohio R. R., replacing Bridge No. 46. D. D. Carothers is Chief Engr., Baltimore; O. Rickert is Div. Engr., Grafton, W. Va.

FORT LAUDERDALE, FLA.—Bids are asked until noon, Sept. 4, by A. K. Dearborn, Clk. Circuit Court, Miami, Fla., for removing bridge which has fallen into New River at Fort Lauderdale, and replacing same in satisfactory condition.

HUNTSVILLE, ALA.—The County Commissioners have awarded a contract to the CONVERSE BRIDGE CO. for a steel bridge to be placed over Hurricane Creek, on the Gurley and Maysville Road.

LEAKESVILLE, MISS.—Greene County Supervisors have let contract to the TEXAS BRIDGE CO., of Dallas, Tex., at $8,584, for building a steel bridge across the Chickasawhay River at Anna's Ferry, and to the CANTON BRIDGE CO., Canton, Ohio, at $7,395, for building a steel bridge across the same river at Miller's Ferry.

VICKSBURG, MISS.—The Board of Supervisors, at a recent meeting, awarded to the W. T. YOUNG BRIDGE CO. contract for erecting bridge at Haynes Bluff, at $4,800.

NEW ORLEANS, LA.—The following bids have been received for repairing the Claiborne Bridge over the New Basin: T. A.

Noullett & Co., $8,897; J. A. Craven & Co., $6,985; Concrete Construction and Contracting Co., $7,495, and the Bullien Bridge Co., $4,650.

SYDNEY, OHIO.—Bids are asked until noon, Sept. 1, by J. C. Rosser, County Audr., for constructing one 2-span, high truss, single track, bridge, 125 ft. long, roadway 18 ft. wide, with two abutments and one pier, over the Great Miami River at the north end of the Children's Home Pike; also, one 1-span, high truss bridge, 80 ft. long, with 16-ft. roadway and one abutment, over the Miami and Erie Canal, on the township line between Loramie and Cynthian Townships; also one automatic swing bridge, 45 ft. long, with roadway 16 ft. wide, over the Miami and Erie Canal at Dawson, Ohio.

MASSILLON, OHIO.—It is reported that a single span steel bridge, costing about $10,000, will be erected at West Tremont St., Massillon.

EUCLID, OHIO.—Bids are asked until 11 a. m., Sept. 1, by the Commissioners of Cuyahoga County, Julius C. Dorn, Clk., Cleveland, Ohio, for constructing concrete arch in Euclid Township. William H. Evers is County Engr., Cleveland.

HAMILTON, OHIO.—Bids are asked until 10 a. m., Aug. 28, by Charles Pabst, County Audr., for constructing substructure and superstructure of bump bridges at Lincoln Ave. and Hensley St., Hamilton, over the Miami and Erie Canal.

JEFFERSON, OHIO.—Bids are asked until 1 p. m., Sept. 5, by P. C. Remick, Audr., Ashtabula County, for constructing reinforced concrete bridge over Mill Creek, in Jefferson Township.

NEWARK, OHIO.—Bids are asked until noon, Aug. 30, for building substructures and superstructures for several county bridges. J. N. Wright, County Audr.

COLBURN, IND.—The LA FAYETTE ENGINEERING CO. has secured contract, at $3,168, to construct a bridge over Sugar Creek, at Colburn.

PERU, IND.—Contracts have been awarded by the Commissioners of Miami County as follows: The ROCHESTER BRIDGE CO., the superstructure of Rifle and the Landes bridges, the substructures being awarded JOSEPH HOOVER and CHARLES BLACK; CHARLES BLACK the Blackburn arch and JOSEPH HOOVER the De Haven arch.

COLUMBUS, IND.—A contract has been awarded to WESLEY VANARSDALL, of Edinburg, for construction of five concrete bridges for the Indianapolis, Columbus & Southern Traction Co., between Columbus and Seymour.

TREMONT, ILL.—The contract for constructing a bridge over the Mackinaw River, near Tremont, is reported to have been awarded to WILLIAM NOONAN and EDWARD COONEY, of Tremont, at $6,990.

HANOVER, ILL.—The contract for constructing a 36-ft. single span reinforced concrete bridge at Hanover has been awarded to the JOLIET BRIDGE & IRON CO., Joliet, Ill. H. L. Emerson, 1206 Chamber of Commerce, Chicago, is Engr.

GENESEO, ILL.—Bids are asked until 3 p. m., Aug. 28, by the Local Commissioners, for constructing three 140-ft. bridges, one 50-ft. span approach and one 156-ft. span. This is the same work for which bids were asked until Aug. 21, as noted in issue of Aug. 16.

UTICA, ILL.—It has been decided to erect a bridge to be located at Utica, on the Illinois River, to replace the structure recently destroyed by a windstorm. The bridge will cost $75,000. There will be a draw 105 ft. wide.

BELVIDERE, ILL.—The JOLIET STEEL CONSTRUCTION CO. has been awarded contract to build a bridge across the Kishwaukee River at Newburg, to cost $4,495.

MILWAUKEE, WIS.—Bids are asked until 10:30 a m., Sept. 14, by the Commissioners of Public Works, for erecting a bascule bridge over the North Menomonee Canal, at 60th St., in Milwaukee. Estimated cost, $100,000. Charles G. Poetsch is City Engr.

AUGUSTA, WIS.—The contract for constructing three concrete bridges has been awarded the HENNEPIN BRIDGE CO. Frank Foster is Engr.

IOWA CITY, IOWA.—W. W. Berry submitted the lowest bid, at $4,690, on Aug. 5, for building bridge over the Ralston River at the intersection of Washington and Dodge Sts.

TOPEKA, KANS.—We are officially advised by S. H. Haynes, Chn. Bd. County Comrs., Topeka, that on Aug. 13, the LEAVENWORTH BRIDGE CO., of Leavenworth, Kans., secured contract to construct Rossville and Willard bridge, at $16,134, and the Silver Lake and Valencia Bridge, at $18,191.

OMAHA, NEBR.—Plans and specifications have been prepared for a $20,000 steel bridge across the Burlington River at Q St.; the city probably will build the east approach, to cost $3,000, and the county the west approach, to cost $4,000.

FARGO, N. DAK.—Bids are asked until noon, Sept. 6, by Arthur G. Lewis, Audr. Cass County, for constructing various bridges in the county.

KANSAS CITY, MO.—Bids are asked until Sept. 4 by J. L. Phelps, County Clk., at Independence, Mo., for constructing a bridge of rubble stone, with an arch of 70 ft. and a roadway 42 ft. wide, over 15th St. at the crossing of Blue Ridge Road.

FREDERICKTOWN, MO.—At a meeting of the Board of County Commissioners, Aug. 8, the contract to erect a steel bridge over the Monacacy River at Link's Ford was awarded to the YORK BRIDGE CO., of York, Pa., at $11,272. The bid includes the mason work for the bridge. The bridge will be 240 ft. long.

RENTON, WASH.—The contract for constructing a bridge over Cedar River has been awarded the INTERNATIONAL CONTRACTING CO., 17 Battery Pl., New York, N. Y., at $11,400.

NORTH YAKIMA, WASH.—We are officially advised that contract to construct bridge over Natches River, near Natches Townsite, has been awarded to the INTERNATIONAL CONTRACTING CO., of Seattle, at $5,386. The bridge will have two 100-ft. spans. W. B. Newcomb, North Yakima, is County Audr.

DAGGETT, CAL.—Bids are asked until Oct. 8, by the Supervisors, for constructing a 2-span steel bridge, 253 ft. long, over the Mojave River, at Daggett.

SAN FRANCISCO, CAL.—It is reported that the Western Pacific Ry. Co. has placed contract for the steel bridges with the AMERICAN BRIDGE CO. This order requires 5,500 tons of fabricated steel.

SAN DIEGO, CAL.—John E. Clouse, contractor for the 30th St. grading, has sublet the contract for installing the bridge over the Switzer Canyon to COTTON BROS., of Oakland, at $30,000. The structure will be of steel and wood and will be 912 ft. long. One of the piers will be 85 ft. long.

HAWKSHAW, N. B.—Plans have been prepared and bids will soon be called for construction of a steel bridge across the St. John River, at this town. Estimated cost, $60,000.

FREDERICTON, N. B.—The Chief Commissioner of Public Works, Fredericton, is having plans prepared for construction of a steel bridge at Pokiok, N. B., to cost about $60,000.

RAINY RIVER, ONT.—The contract for the steel and concrete bridge at Pithers Point has been let by the Duluth, Rainy Lake & Winnipeg Ry. Co. to the RAINY RIVER BRIDGE CO.

CAMPBELLFORD, ONT.—DIXON BROS., of Campbellford, it is reported, have secured the contract for the superstructure of the steel bridge to be built over the Mattawa River. The entire structure is to cost $20,000, and is to have two spans of 110 ft. each.

GLADSTONE, MAN.—Bids are asked by the Public Works Dept. for erecting a steel Warner truss bridge over the White Mud River at Gladstone. The bridge will be 80 ft. long and will have an 18-ft. roadway and two 5-ft. sidewalks. S. Schooley is Secy., Gladstone.

SASKATOON, SASK.—Contracts for construction of traffic bridge over Saskatchewan River have been let as follows: Steel superstructure, CANADIAN BRIDGE CO., Walkerville, Ont., $64,000; concrete cubstructure, GREEN & SON, Winnipeg, $40,000.

MEXICO.—Bids are asked for constructing a steel bridge at Culiacan, Mexico. Advertised in Engineering News in this issue. For details see under "Mexico."

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NARRAGANSETT PIER, R. I.—It is reported that Louis Sherry, of New York, is to build a hotel here at a cost of $250,000. It is to be a 4-story building, 200 × 100 ft.

NEW YORK, N. Y.—A new hotel is to be erected at Longacre Square by William Waldorf Astor. The building will cover the block front just south of his Hotel Astor, from 43d to 44th Sts.

Plans have been filed with Building Superintendent Murphy for the new south wing of the American Museum of Natural History, to be added to the west facade of the building. It is to be five stories high, 66.10 × 156.8 ft., of brick and granite, adorned with columns at the entrance, and harmonizing in design with the present edifice. The addition is to cost $325,000. Charles Volz, 160 Fifth Ave., is Arch.

Lorenz F. J. Weiher, Arch., 103 East 125th St., is preparing plans for a 6-story apartment house, to be erected by Ruff & Hochster on the north side of Tenth St., 175 ft. east of Bleecker St., on plot 50 × 95 ft. The structure will cost $60,000.

Oppenheim, Collins & Co. will erect an 11-story building at 33-35 West 34th St. The building is to cost $350,000.

The Executive Committee of the Board of Education has awarded the contracts for the building of School 43, in the Bronx; No. 152, in Brooklyn, and No. 16, in Queens. The contract for the new headquarters in Brooklyn has also been awarded. It is to be on Livingston St. The three new school buildings are to cost $790,593, and the headquarters building is to cost $241,370.

POUGHKEEPSIE, N. Y.—The Poughkeepsie Trust Co. has awarded the contract for the erection of their new 5-story building to WILLIAM BURNETT, 320 Fifth Ave., New York City. The building is to cost $300,000.

SYRACUSE, N. Y.—Bids are asked by Goggin & Goggin, Archs., for the erection of a Y. M. C. A. building, to cost $300,000.

WATERTOWN, N. Y.—The contract for the erection of a new freight terminal for the New York Central R. R. Co., has been awarded to CLINTON D. HODGES & CO., of this city. The estimated cost is $70,000. It is to be a 1-story brick and concrete building, 50 × 667 ft.

ALBANY, N. Y.—The contract for the erection of a club-house for the German Hall Assn., to be erected on Beaver St., has been awarded to COLLINS BROS. It is to cost $110,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Aug. 30, by the Commissioner of Correction, for repairs and alterations to water supply, plumbing, heating, lighting and ventilation at the Seventh District Prison. Francis J. Lantry, Comr.

Bids are asked, by the Department of Public Charities, until noon, Aug. 31, for wiring and lighting the buildings on Randall's Island. Robert W. Hebberd, Comr.

ATLANTIC CITY, N. J.—Bids are asked until Aug. 27th by Price & McLanahan, Archs., 1624 Walnut St., Philadelphia, Pa., for the erection of a hotel to replace the Hotel Traymore, owned by Josiah White. It is to be a 9-story reinforced concrete building. Estimated cost, $700,000.

PHILADELPHIA, PA.—The contract for the erection of a 3-story brick and steel fireproof building for Aikus Bros., at Spring Garden and Marshall Sts., has been let to F. A. HAVENS & CO., Perry Bldg.

The Union Republican Club will erect a new central club-house in South Broad St. It is the intention of the organization to have the foundations constructed sufficient to support a 25-story building, but the present plans provide for a 5-story brick and stone building. The estimated cost is $650,000. Jacob Naschald, 504 Walnut St., is the Arch.

HARRISBURG, PA.—Plans are being prepared for a new telephone exchange and office building, to be erected by the Pennsylvania Telephone Co., L. H. Kinnard, Mgr. It is to be a 3-story stone and steel building, of fireproof construction. Estimated cost, $50,000.

PITTSBURG, PA.—The Pennsylvania R. R. Co. will erect a new union station here at a cost of $1,500,000.

KEYSER, MD.—A new court-house is to be built here at a cost of $50,000.

BALTIMORE, MD.—A new hospital is to be erected here at a cost of $75,000. It is the gift of Mrs. S. L. Frank, wife of the late Dr. Samuel Leon Frank, former president of the Hebrew Hospital and Asylum.

Plans are being prepared for S. E. Stewart, 406 East Baltimore St., for the erection of a warehouse to be built at 303 East Baltimore St. It is to be a 7-story, brick and terra-cotta building, 20 × 140 ft.

German & Co., builders, Law Building, 225 Courtland St., have commissioned Jacob F. Gerwig, Arch., Hoffman Building, 11 East Lexington St., to prepare plans and specifications for twelve 3-story brick dwellings with modern improvements to be erected on North Ave., near Smallwood St., at cost of about $50,000.

The New Howard Hotel Co. will enlarge its hotel by erecting three additional stories. Wyatt & Nolting, Archs., 30 Builders Exchange, have prepared the plans. Harry Busick is Mgr.

WASHINGTON, D. C.—Bids are asked by Depot Quartermaster Butts, War Dept., for the construction of a hospital to be erected on Brightwood Road. The building is to be modern, and is to cost about $300,000.

Alonzo O. Bliss will erect an apartment house at 130 First St., N. W. It is to be a 5-story brick building. Estimated cost, $100,000. A. Goenner, Bliss Bldg., is Arch.

A Geophysical Laboratory is to be built at the Carnegie Institution, at a cost of $75,946. It is to be a 2-story building, 59.6 × 119 ft., of fireproof construction.

A new hotel, to be known as Congress Hall, is to be erected on Capitol Hill at a cost of $300,000. It is to be a 9-story building.

WASHINGTON, D. C.—GEORGE A. FULLER CO., 949 Broadway, New York, has been awarded contract for the erection of theatre on Ninth St., site for which was recently purchased by Weber & Rush, of New York. Structure will be 3 stories high, 80 × 200 ft.; stone with ornamental terra-cotta exterior; steel-frame construction fireproofed with concrete. Estimated cost, about $150,000. John B. McElfatrick & Sons, Archs., 1402 Broadway, New York.

Mary I. May has awarded contract to W. B. HOLTZCLAW, 1705 Pennsylvania Ave., N. W., for the construction of seven 3-story brick dwellings at 1753-1765 Euclid St. N. W. and four 3-story brick dwellings at 2500, 2510, 2512 and 2514 Ontario Road, to cost about $75,000.

The proposed bank and office building to be erected at 15th and H Sts. N. W. for the Union Trust Co. will be 8 stories high, 53 × 161 ft., with a wing; stone and brick; steel-frame construction; terra-cotta fireproofing. It will cost about $500,000. Bernard R. Green, Supt. Congressional Library, will supervise work of construction.

Bids were opened Aug. 15, at the office of Elliott Wood, Supt. U. S. Capitol Grounds and Buildings, for furnishing 3,000,000 brick for the Senate office buildings. Bids were as follows: Washington Brick & Terra-Cotta Co., Washington, $8.73 per M.; delivery, 2,000 a day. Frederick Brick Works, Frederick, Md., $9.95; delivery, 40,000-45,000 a day. Anacostia Brick Co., Anacostia, Md., $8.53; 70,000 a day. Potomac Brick Co., Washington, $8.73; 40,000 a day. Standard Brick Co., Washington, $9.19; 80,000 a day.

PORTSMOUTH, VA.—An appropriation of $200,000 has been granted for the erection of an addition to the U. S. Naval Hospital at this place. It is to be a 4-story brick, stone and steel building, of fireproof construction.

WINCHESTER, VA.—A United States post-office and court building will be erected here at a cost of $60,000. A. M. Baker can furnish information.

Contract will be let within the next few weeks for library building, which is to cost $100,000. Barney & Chapman, 520 Fifth Ave., New York, Archs.

WHEELING, W. VA.—The Baltimore & Ohio R. R. Co. has awarded the contract to [illegible]ELLS BROS. & CO. for the large general office building to be erected here. Round houses, machine shops and other buildings in connection with the station improvements are included in the contract. The round houses will have twenty-five engine stalls, and there will be two turn-table pits, store-houses, oil houses. The improvements will cost about $1,000,000.

RALEIGH, N. C.—Bids are asked until Aug 29, by J. J. Bernard, Registrar of Deeds, for repairing and improving county jail, court-house, etc.

OXFORD, MISS.—ALLEN, SONS & CO., Peoria, Ill., have contract for building science hall and other buildings at University of Mississippi. Cost, $67,000.

MEMPHIS, TENN.—E. B. Causey will erect 40 residences at a cost of $100,000.

CHATTANOOGA, TENN.—Plans have been adopted by the Chattanooga Hotel Co. for the erection of a hotel, to be eleven stories high, 176 × 120 ft., and to cost over $1,000,000.

KNOXVILLE, TENN.—The proposed apartment house to be erected on [illegible] Leavenworth lot in James St. is to be [illegible] nine stories high. The estimated cost is [illegible],000.

CLEVELAND, OHIO.—Plans are to be commenced at once for a new central library building. The building is to cost about $700,000.

ORRVILLE, OHIO.—Bids are asked by the Cyclone Drill Co. for the erection of a brick building, 60 × 120 ft., to be erected at its plant.

LIMA, OHIO.—The Allen County Pioneer Assn. intends to erect a $1[illegible] memorial building to old soldiers and pioneers of Allen County. Dr. R. E. Jones, of [illegible], is Pres. of the Assn.

INDIANAPOLIS, IND.—The [illegible] P. Lesh Paper Co. are to build a new [illegible]-story office building and warehouse on Kentucky Ave., at a cost of $50,000. It is to be of concrete.

SOUTH BEND, IND.—H. G. CHRISTMAN & CO. has the contract for building the Studebaker Y. M. C. A. Bldg. It is to be a 4-story brick building, of fireproof construction, and is to cost $250,000.

GARY, IND.—The United States Steel Corporation has awarded a contract to the FALKENAU LUMBER CO., of Chicago, for the construction of 300 dwelling houses at a cost of $1,500,000, to be erected here. Dean & Dean, Archs., have also drawn plans for 300 dwellings to be erected here within the next year. Contracts for these will also be let soon. One thousand dwellings are expected to be constructed here within a year.

NEW CASTLE, IND.—Bids are asked until 10 a. m., Sept. 6, by the Board of Trustees of the Indiana Village for Epileptics, Room 711, Traction Terminal Station, Indianapolis, for the erection of a family residence and dormitories on the Epileptic farm near here. Brubaker, Eldridge & Co., 28 Marion Blk., Archs.; E. G. Hogan, Secy.

BLOOMINGTON, IND.—Bids are asked by the Board of Education until 1 p. m., Sept. 18, for the erection of a 2-story stone and brick school building; also for a steam heating plant. A. R. Nichols, Arch.

INDIANAPOLIS, IND.—Bids are asked by John E. Cleveland, business director of the School Board, until 12:30 p. m., Aug. 31, for the erection of a school-house at the Indianapolis Orphan Asylum. Foltz & Parker, 431 Union Trust Bldg., Archs.

DETROIT, MICH.—The contract for the erection of the 18-story Ford Bldg., to be erected on Griswold and Congress Sts., has been awarded to FRANK H. GODDARD. Burnham & Co., 83 Wabash Ave., are Archs.

PORT HURON, MICH.—It has been decided to rebuild the high school building on the old site, at a cost of $75,000.

BARTONVILLE, ILL.—See under Water Supply and Irrigation.

CHICAGO, ILL.—Bishop & Co. have awarded the mason contract for two flat buildings, to be erected at 146 and 166 Winthrop Ave., for B. F. George, 108 La Salle St., to H. D. MORELAND & CO., 97 Clark St. To be three stories, 50 × 62 ft., built of brick and stone. Estimated cost, $60,000.

Holabird & Roach, Archs., 100 Jackson Blvd., have awarded the general contract for a residence, to be erected at Lake Forest, Ill., for C. H. Fitzhugh, to the NORTON CONSTRUCTION CO., Milwaukee, Wis., which has sublet plumbing to J. E. FITZPATRICK, Lake Forest, Ill. To be 3-story, 80 × 90 ft., built of brick and stone, with tile roof. Estimated cost, $60,000.

Rudolph Schiffman Co. has awarded contract for their 4-story fireproof press brick, cut stone and concrete building to the BRAYTON ENGINEERING CO., City. It will be built on Sixth St., between Fort and Exchange Sts. Estimated cost, $55,000.

CHICAGO, ILL.—A new building, to cost $800,000, is to be erected at 208-14 Wabash Ave., by the heirs of the late Mathew Laflin.

Plans have been completed by Frank L. Fry & Co., Archs., 1401 Ft. Dearborn Bldg., for an apartment building to be erected at Orchard St. and Arlington Place, for B. F. McConnell. It is to be a 3-story building. Estimated cost, $60,000.

PEORIA, ILL.—W. D. Dickson and Henry Sandmeyer, Jr., intend to erect a 10-story office building on South Jefferson Ave. It is to be 50 × 72 ft., and of fireproof construction. Estimated cost, $120,000.

NORTH CHICAGO, ILL.—Bids are asked by the Bureau of Navigation, Navy Dept., Washington, D. C., until noon, Sept. 4, for the construction of houses for officers' quarters for the Naval Training Station, Great Lakes, North Chicago. Specifications are on file at office of Engineering News. G. A. Converse, Ch. of Bureau.

MILWAUKEE, WIS.—Herman Nunnemacher will erect a $60,000 flat building at Bradford and Prospect Aves. It is to be a 3-story brick building, 60 × 160 ft. Hood & Tullgren, 86 Michigan St., are Archs.

ST. PAUL, MINN.—The Elks are going to erect a $50,000 building on Washington St. C. H. Johnston, Arch., 712 Manhattan Bldg., is preparing plans for a 2-story pressed brick and cut stone library building, to be built at Hamline University here. It will be of fireproof construction. Estimated cost, $60,000.

AUSTIN, TEX.—LEDBETTER & MUNDT, 402 San Antonio St., have been awarded the contract at $714,829 for the erection of law building at the University of Texas.

BEAUMONT, TEX.—A modern fireproof business building, to cost about $[illegible],000, will be erected here by H. A. Pearlstein.

TEMPLE, TEX.—The Atchison, Topeka & Santa Fe R. R. Co. will erect a brick hospital here for its employees, at a cost of $65,000.

SACRAMENTO, CAL.—The Alaska Commercial Co. will erect a steel office building at California and Sansome Sts. Estimated cost, $500,000.

MUSKOGEE, IND. T.—Bids are asked by the Barnes Investment Co. for alterations to be made on its building at a cost of $50,000. It is to be a 2-story building, 150 × 200 ft., of brick and stone. J. E. O. Pridmore, 164 Dearborn St., Chicago, Ill., is Arch.

DENVER, COLO.—The contract for the erection of the St. Francis apartment hotel has been awarded to ALEXANDER MATHERS, Continental Bldg. It is to be a 4-story building. Estimated cost, $100,000. F. E. Edbrooke, [illegible] Opera House Blk., is Arch.

A college for orphans is to be built here at a cost of $2,500,000. It is the gift of the late George W. Clayton.

SPOKANE, WASH.—The True Oil Co. will erect a warehouse and office building on Front Ave.

SEATTLE, WASH.—Plans are being prepared for the erection of wharves and warehouses to be built by the Northwestern Steamship Co. Estimated cost, $1,000,000.

James [illegible] Schack, Arch., Downs Blk., has prepared plans for an office building to be erected on Second Ave. by August Kelhorn. It is to be a 12-story fireproof steel and concrete building. Estimated cost, $35,000.

SPOKANE, WASH.—The Northern Pacific R. R. Co. is planning the most elaborate passenger station on its system between St. Paul and the coast, to be built here. The plans are being drawn, and the estimate of cost is $500,000.

LONG BEACH, CAL.—Plans are being prepared for the erection of a $300,000 business and apartment block by the Oxford Co. It is to be a 6-story building, of reinforced concrete and of fireproof construction.

SAN FRANCISCO, CAL.—O. D. Baldwin is to build an apartment house at Polk and Post Sts. It is to be a 5-story, brick and steel building, 66.9 × 120 ft. Estimated cost, $75,000. T. Paterson Ross & A. W. Burgren, 222 Ransome St., are Archs.

Plans are being prepared by Mooser & Milwain, 819 Market St., for a 7-story reinforced concrete building to be erected at Montgomery and Sacramento Sts. at a cost of $125,000.

The Claus Spreckels mansion on Van Ness Ave. is to be restored at an expenditure of $800,000.

A. Aronson and the Central Realty Co. are about to erect a 6-story brick and steel building on Sutter St., at a cost of $150,000.

Preliminary plans have been made for construction of the largest dwelling structure yet built in San Francisco. It is to cost about $350,000.

E. A. Bozio is the Arch. of a steel and iron 3-story building that will be erected on 22d and Mission Sts., at a cost of $80,000.

A 6-story concrete building is to be erected by Dr. George P. Allen on O'Farrell St. It is to cost $70,000.

SAN JOSE, CAL.—A new 5-story bank and office building is to be erected by the Bank of San Jose. Henry A. Schulze, 515 Wells-Fargo Bldg., Arch.

HAMILTON, ONT.—The congregation of the Central Presbyterian Church will erect a church at a cost of about $100,000.

OTTAWA, ONT.—The Minister of Public Works will invite every architect in Canada to put in competitive plans for the new departmental building to be erected there.

CALGARY, ALTA.—The Bell Telephone Co. will erect a bank building here at a cost of about $100,000.

MOOSE JAW, SASK.—It is stated that the Canadian Pacific R. R. Co. will erect a hotel here at a cost of about $150,000.

VANCOUVER, B. C.—The Royal Bank of Canada will erect a branch building here at a cost of about $50,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

OXFORD, MASS.—L. J. RICHARDSON has secured contract, at $55,000, to construct the Oxford water-works system.

SOUTH NORWALK, CONN.—The South Norwalk Water Commissioners have awarded contract for construction of the city filter to the BUNTING CONSTRUCTION CO., Flatiron Bldg., New York, N. Y. An appropriation of $100,000 has been made.

NEW YORK, N. Y.—The following bids were received Aug. 15 by William B. Ellison, Comr. Water Supply, Gas and Electricity, for constructing an engine house for high pressure fire service, at (a) Willoughby and St. Edwards Sts., and at (b) Furman and Joralemon Sts., Brooklyn: John L. Cotter, 127 East 23d St., (a) $69,473, (b) $54,298; Kelly & Kelley, 45 East 42d St., (a) $67,508; T. W. Carten Construction Co., (a) $71,600, (b) $46,300; C. H. Beckworth, 415 Hudson St., (a) $64,422, (b) $45,423; George F. Driscoll, 391 Fulton St., Brooklyn, (a) $70,000, (b) $50,000; D. Ryan, 723 Third Ave., $48,639; A. S. Traub, 215 West 125th St., $46,480; R. H. Brown, $46,889.

NEW YORK, N. Y.—The contract for constructing the last dam to be constructed under the original plans for the city's additional water supply from the Croton watershed was awarded Aug. 21 by the Aqueduct Commissioners to MALLOY BROS. Their bid was higher than that of Ashbel G. Vermilye, who bid $2,817,000. Malloy Bros.' bid was $3,028,853.

Bids are asked until 2 p. m., Aug. 29, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for constructing coal shed and culvert, and for grading and general work required at the Canarsie pumping station, near Ave. D and Remsen Ave., Brooklyn.

WHITE PLAINS, N. Y.—Bids are asked until [illegible] p. m., Sept. 8, by the Board of Water Commissioners, Lewis C. Platt, Pres., for excavating and back filling trenches for 14-in. water main, gates, hydrants and specials in five streets in White Plains. (Advertised, Engineering News.)

CORTLAND, N. Y.—ELERY COLBY, of Oswego, N. Y, has secured contract to construct a system of water-works in Cortland.

NIAGARA FALLS, N. Y.—HENRY R. WORTHINGTON, of Buffalo, N. Y., has been awarded the contract for furnishing and installing a 5,000,000-gallon pump at the Niagara Falls water-works. Walter McCulloh is City Engr.

UTICA, N. Y.—It is reported that the Consolidated Water Co. has awarded to the UTICA PIPE FOUNDRY the contract for 2,500 tons of 16 and 20-in. c.-i. water pipe, and special castings. The cost is reported to be about $75,000.

LOCKPORT, N. Y.—Bids will be received until Oct. 8 by the Common Council at the office of E. S. Bennett, City Clk., for constructing a water supply system and a distributing main from the stand-pipe to Main and Buffalo Sts.

BERGEN, N. Y.—Bids are asked until noon, Aug. 27, by H. C. Miller, City Clk., for about 14,000 ft. c.-i. pipe, 27 hydrants, 15 gates and a water tower. George S. Pierson, Kalamazoo, Mich., is Engr. (Advertised, Engineering News.)

ASBURY PARK, N. J.—Plans and specifications for 200-HP. internal furnace boiler, for the Water Department at Asbury Park, as advertised, are on file at office of Engineering News, New York. Bids are asked until Sept. 10.

PITTSBURG, PA.—Bids have been rejected for the 66-inch riveted steel main to be laid around Highland reservoir, connecting it with Reservoir No. 1, because they were in excess of the estimated cost. The lowest bid was $65,000, while the estimated cost is $45,000. New bids will be advertised for.

The INTERNATIONAL CONSTRUCTION CO. secured the contract to lay the Gross St. pipe line system, at $51,473, and RAPHAEL VERRI & CO. got the contract for the Millvale Ave. pipe line, at $3,957.

BALTIMORE, MD.—Bids are asked until Aug. 25 by the Baltimore County Water & Electric Co., 411 East Baltimore St. A. E. Walden, Supt., for constructing a 4,500,000-gallon stand-pipe. We are officially informed that mechanical filters will be considered soon. The complete plant will cost about $200,000. B. H. Wehr is Secy.

RICHMOND, VA.—We are officially informed that on Aug. 17 the Committee on Water, E. E. Davis, Clk., awarded to J. L. LINDSAY contract to supply ⅝-in. disk Keystone water meters, at $7.98 and $6.35 each.

SUFFOLK, VA.—E. B. WILKINS, of Park View, has been awarded the contract for building the main and other buildings for the machinery connected with the filtering plant at the Portsmouth and Suffolk Water Co.'s plant near Suffolk. The main building will be over 400 ft. long. There will be several smaller houses connected with the large one.

CHARLOTTESVILLE, VA.—The city has authorized a $135,000 bond issue for improving water system. Site has been secured for the location of reservoir and the right-of-way for pipe line. Contracts for building dam will be let within the next 60 days. C. M. Bolton is Engineer-in-Charge.

SALUDA, S. C.—THE SOUTHERN CONSTRUCTION CO., of Norfolk, Va., is reported to have secured the contract for constructing water-works, at about $34,000, to be installed at Matthews.

KEY WEST, FLA.—This city contemplates installing water-works, sewerage system and paving streets.

BUNKIE, LA.—We are officially advised that at the election held Aug. 10, to vote upon the proposition of bonding the city for water-works construction, the question was carried. The town will now proceed with the contracts. S. E. Schmink is Town Clk.

DAYTON, OHIO.—We are officially advised that on Aug. 17 two bids were submitted to the Department of Water, Harry J. McDargh, Maintenance Engr., for furnishing and laying pipe. The bids were: Charles L. Allen, Marion, Ohio, $90,011, and Pickeral & Ratchford, Valley and Troy Sts., $97,949. The contract will be awarded later.

CLEVELAND, OHIO.—It is reported that water mains will be extended out Kazimier Ave. as soon as arrangements for the work are completed.

GARRETTSVILLE, OHIO.—The MASSILLON STEEL & IRON CO., Massillon, Ohio, has secured contract for supplying pipe for proposed water-works, as follows: 4-in. pipe, $32 a ton; 6, 8 and 10-in. pipe, $31 a ton; specials, $55 a ton. L. E. Chapin is Engr.-in-Charge.

CHICAGO, ILL.—The contract for installing two boilers, steam and water piping, etc., at Springfield Ave. pumping station, bids opened Aug. 10, has been awarded to THOMAS F. PICKHAM, 60 West 14th St. Approximate cost, $30,000. W. A. Levering is Supt., 321 City Hall.

HARMON, ILL.—It is proposed to construct water-works at Harmon. Probable cost, $3,500 to $5,000. Benjamin F. Shaw is Village Clk.

MOUNT VERNON, ILL.—The Chicago & Eastern Illinois R. R. Co. is planning the construction of a reservoir two miles northeast of Mount Vernon, Ill. It will have a capacity of at least 20,000,000 gallons.

BLOOMINGTON, ILL.—The Board of Public Improvements, on Aug. 11, let contract for installing 20-in. water main in Center St. to BROMGEN & COX, at $25,667. Elmer Folsom is City Engr.

ROCK ISLAND, ILL.—An appropriation of $18,692 has been made by Congress, to increase the water supply at the Rock Island Arsenal.

BARTONVILLE, ILL.—Bids are asked until 1 p. m., Sept. 4, by the Board of Trustees for the Illinois Asylum for Incurable Insane, W. H. Schott, Engr., American Trust Bldg., Chicago, for constructing additions to extensions to the present heating plant and water supply at the asylum. (Advertised, Engineering News.)

CHICAGO, ILL.—Plans and specifications for installing tube boilers in the Lawrence Ave. pumping station, Chicago, as noted in issue of Aug. 9, are on file at the office of Engineering News, New York. Bids are asked until Aug. 25. William L. O'Connell is Comr. of Pub. Wks.

DES MOINES, IOWA.—A contract was let Aug. 9 by the Des Moines Hosiery Mills for the building of a water softening plant, to the DODGE MFG. CO.

EYOTA, MINN.—The NATIONAL CONSTRUCTION CO., of South Bend, Ind., has secured the contract for constructing water-works at Eyota.

LOGAN, KANS.—The DES MOINES BRIDGE & IRON WORKS has contract for constructing water-works at Logan. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

CASSELTON, S. DAK.—JAMES LECK has been awarded the contract to erect a 60-ft. circular hot water reservoir at Casselton, at $27,590. Bids received on Aug. 1.

SIOUX FALLS, S. DAK.—Bids are asked until Sept. 1 by William R. Marshall, Secy. Water Comrs., for constructing an open well, 25 ft. in diameter. Loweth & Wolff are Engrs., St. Paul, Minn.

LEWISTON, MONT.—It is reported that N. J. LITTLEJOHN has secured the contract for constructing water-works at Lewiston; bids opened Aug. 1, at $27,590.

KANSAS CITY, MO.—It is reported that the contract for furnishing c.-i. pipe and castings has been awarded to U. S. CAST IRON PIPE & FOUNDRY CO., Rookery Bldg., Chicago, Ill. Everett Elliott is Secy. Bd. Pub. Wks.

ST. LOUIS, MO.—Bids are asked until noon, Sept. 4, by the Board of Public Improvements, W. B. Dryden, Secy., for supplying water pipes, special castings, stop valves and fire plugs. A. J. O'Reilly is Pres.

CAMERON, MO.—City has voted affirmatively the proposed $9,000 bond issue for improving water-works and electric light plant.

MORRILLTON, ARK.—The Morrillton Water-Works Co., of Morrillton, has been incorporated with a capital stock of $50,000. The incorporators are: J. T. Hannaford, Mrs. Emma Hannaford, J. B. O'Neal and others. This company proposes to establish a water-works system at Morrillton.

CLAREMORE, IND. T.—We are officially advised that contract to construct water-works at Claremore has been awarded to W. W. COOK & SONS, at $35,550. W. P. Bullock, Kansas City, Mo., is Engr.

GRANT, COLO.—Excavation work on what, when completed, will be the second largest irrigation dam in Colorado, has been begun by the Continental Reservoir & Investment Co. in Park County. The dam is a part of an irrigation project that will furnish water for at least 40,000 acres of arid lands in the portion of the state lying east and northeast of Denver. The site of the new dam is near Grant, in Park County. The dam itself will be 125 ft. in height and 1,800 ft. long. It will be built of cyclopean rubble stone. It will cost to complete this work about $700,000. C. C. Reid is Pres.; Abner Graves is Vice-Pres., and P. H. Lund is Secy.; H. S. Sanderson is Engr.-in-Charge.

PORTLAND, ORE.—Bids are asked until 11 a. m., Sept. 1, by the Water Board of the City of Portland, Frank T. Dodge, Supt., for furnishing 2,000 ½-in. and 500 ⅝-in. corporation stop cocks.

SACRAMENTO, CAL.—The following bids were received for 3,200 ft. of 20-in. steel water mains for I St.: Clark & Henery, $7.25 a ft.; Sacramento Boiler Works, $7.65½ a ft. The bids were referred to the Water Committee and City Surveyor.

AMHERST, N. S.—Bids are asked until 5 p. m., Aug. 27, by the Town Clerk, for constructing masonry dam and appurtenances and for laying 140 ft. 16 and 24-in. c.-i. pipe. Bids are also asked for waterproofing the present distributing reservoir.

ST. STEVENS, N. B.—The bids received Aug. 9 by the Town Council for constructing pumping station were in excess of the engineer's estimate of $9,000, the lowest being $9,875, submitted by J. H. Nesbit, of St. Stevens. There were only two bids, and both were rejected.

BRADFORD, ONT.—This town will install a complete water-works plant, using artesian wells for supply. Robert Stewart is Town Clk.

PORT ELGIN, ONT.—The SMART-TURNER MACHINE CO., Hamilton, Ont., has been awarded contract by the Town of Port Elgin for water-works pumps, consisting of compound duplex pumping engine, boiler feed pump, piping, etc.

MOOSOMIN, SASK.—Bids are asked until 7.15 p. m., Sept. 4, by John Smithers, Secy., for constructing complete water-works system at Moosomin. Estimated cost, $25,000. Willis Chipman is Ch. Engr., 103 Bay St., Toronto, Ont.

VICTORIA, B. C.—The city is making arrangements to install a water-works system.

VANCOUVER, B. C.—We are advised by the Secretary of the Vancouver City Waterworks, that EVANS, COLEMAN & EVANS, of Vancouver, have secured contract for supplying 2,240 tons of c.-i. pipe at $34,093, if imported by steamer, or $33,657 if imported by sailing vessel.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WESTFIELD, MASS.—We are officially informed that on Aug. 18 DANIEL A. DORCY, West Somerville, Mass., was awarded contract to construct Section 12, storm water sewers, in Westfield, at $6,255. Oren E. Parks is Town Engr.

NEW YORK, N. Y.—Plans have been prepared by Joseph De Bragga, Supt. of Sewers for Boro. of Queens, for a sewer system for Richmond Hill and Morris Park. The main will go down Van Wyck Ave. to Lincoln Ave., where it will join the effluent from Jamaica, and all will go to the Jamaica disposal plant on the Bergen farm, which probably will have to be enlarged, two or three more acres being needed for the purpose.

We are officially advised that contract for the Ingleside sewage system, Long Island City, has been let to P. J. MURRAY & CO., 215 Montague St., Brooklyn, for the sum of $190,816.

SENECA FALLS, N. Y.—It is reported that the WILKES-BARRE CONSTRUCTION CO., of Wilkes-Barre, Pa., has secured contracts for constructing sewers at Seneca Falls, at $56,000.

UTICA, N. Y.—The contract to construct storm sewers in the vicinity of Pleasant St., on Aug. 10 was awarded by the Common Council to JOHN F. & JEREMIAH F. AUGAR, at $10,323. The work must be completed December 15. Paul Schultz is City Engr.

PASSAIC, N. J.—Bids are asked until 8 p. m., Aug. 24, by the Committee on Sewers, for constructing sanitary sewer in Fifth St., between Passaic and Essex Sts. Colin R. Wise is County Surv.; Thomas R. Watson is City Clk.

PLAINFIELD, N. J.—Bids are asked until 8 p. m., Sept. 4, by the Common Council, George B. Wean, Clk., for constructing sanitary sewers. Andrew J. Gavett is City Surv. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked until Aug. 28, by the Department of Public Works, L. Hicks, Dir., for constructing main sewers, reconstructing old sewer and constructing branch sewer, Schedules B, C and D.

LANCASTER, PA.—It is reported that W. G. STALL'S SONS have secured the contract for building concrete sewers in Sections 1 and 2, at $10,133 and $71,081, respectively. F. H. Shaw is Engr. Sewer and Water Comrs.

SAYRE, PA.—We are officially informed that on Aug. 15 all bids received for constructing about 6,900 ft. of 18 to 20-in. pipe sewer, at Sayre, were rejected. The estimate of Williams, Proctor & Potts, Engrs., 17 Battery Pl., New York, N. Y., was $19,358; the lowest bid received was that of D. M. Rosser, Kingston, Pa., $21,270. Bids probably will be asked again in September.

CARRICK, PA.—Bids are asked until 8 p. m., Sept. 5, by William McClurg Donley, Boro. Engr., Carrick, for constructing 28 miles of 24-in. sewers in the Borough of Carrick. (Advertised, Engineering News.)

BALTIMORE, MD.—The Sewerage Commission, American Bldg., will submit to the Board of Awards, E. Clay Timanus, Pres., City Hall, specifications for the first sewers to be constructed in accordance with the ordinance providing for this work, and will advertise for proposals for the work. Bids will be received about Sept. 1.

DENTON, MD.—Bids are asked until noon, Sept. 12, by the Commissioners of Denton, at Denton, for constructing sewer system in this city. C. Leslie Walls is Clk.; William D. Uhler, Denton, is Engr. (Advertised, Engineering News.)

RALEIGH, N. C.—Bids are asked by the Glenwood Land Co., A. L. Murray, Mgr., for constructing about 8,000 ft. of 8-in. sewers and 2,000 sq. yds. cement sidewalks.

BIRMINGHAM, ALA.—SULLIVAN & LONG, Bessemer, Ala., and Nashville, Tenn., have contract to construct sewer system at Woodlawn, to cost $30,000. Milner & Brown, Birmingham, are Engrs.-in-Charge.

KNOXVILLE, TENN.—CHAS. T. HEINS has contract at $6,100 for construction of North Knoxville sewer. The sanitary sewer will be of 18-in. vitrified clay pipe, 2,700 ft. long and storm sewer 850 ft. long of 36-in. reinforced concrete pipe. W. C. Crozer is City Engr.

COVINGTON, TENN.—Bids are asked until 2 p. m., Sept. 11, by the City Council for constructing a system of sanitary sewers, embracing about five miles of pipe sewers and two septic tanks. Granbery Hackson, Nashville, Tenn., is Engr.; E. H. McFadden is Secy. Sewer Com. (Advertised, Engineering News.)

PADUCAH, KY.—The date of receiving bids for sewer construction, advertised in Engineering News, Aug. 9, to be received Aug. 25, has been indefinitely postponed, and date of letting will be advertised later.

SANDUSKY, OHIO.—Henry Bros. were low bidders for constructing the Warren St. sewer. Their bid for 2,100 ft. of 54-in. circular concrete sewer was $41,000.

MASSILLON, OHIO.—Bids are asked until noon, Aug. 30, by the Board of Public Service, J. A. McLaughlin, Clk., for installing sewer in Center St., from Cherry St. to a point 150 ft. north of Main St.

ZANESVILLE, OHIO.—Bids are asked until noon, Aug. 29, by the Board of Public Service, P. J. Kerwin, Secy., for constructing the Slago Run storm sewer. E. H. Smith is City Engr.

GIRARD, OHIO.—Bids are asked until noon, Aug. 31, by the Village Council, E. L. Hauser, Clk., for constructing sewers in Sewer Districts Nos. 1 and 2, Girard.

CANTON, OHIO.—Bids are asked until noon, Aug. 31, by the Board of Public Service, B. F. Faust, Clk., for installing sewers in Charles and Schwalm Sts., Canton. W. E. Sarver is City Engr.

ST. MARYS, OHIO.—Bids are asked until noon, Sept. 5, by the Board of Public Service, H. W. Stearns, Clk., for constructing complete sanitary sewer system at St. Marys. The Riggs & Sherman Co., 613 The Nesby, Toledo, are Engrs. (Advertised, Engineering News.)

INDIANAPOLIS, IND.—See under Streets and Roads.

DOWAGIAC, MICH.—Bids are asked by H. L. Rutter, City Clk., until Sept. 12, for constructing sewers in various streets.

CHICAGO, ILL.—Bids are asked until Aug. 24, by the Department of Public Works, Wm. L. O'Connell, Comr., for constructing about

1,160 lin. ft. 16-ft. conduit sewer in Lawrence Ave., including the removal of such portions as may be necessary of the existing conduit and also including the concrete bulkhead at the outfall.

SPRINGFIELD, ILL.—The petition for a sewer in South Grand Ave., from 11th to 17th Sts., has been approved and contract will be let in a short time. A sewer will also be laid in Miller St., from 15th to 17th Sts. Henry H. Devereux is Mayor. Frank Hamilton is City Engr.

ALTON, ILL.—E. M. Long, City Engr., is preparing preliminary plans for a reinforced concrete sewer for the East End, to cost $100,000. Also for reinforced concrete sewer system in the West End, to cost $35,000.

COOKS MILLS, ILL.—Bids are asked until 2 p. m., Aug. 25, by the Commissioners of Drainage District No. 10, for constructing from 10 to 16-in. pipe sewer. F. L. Hayes is Town Clk.

MEDFORD, WIS.—It is reported that on Aug. 9 H. A. GILES, of Medford, secured the contract for constructing sewers, at $5,820. T. G. Jeffers is City Clk.

BELOIT, WIS.—Bids are asked until Sept. 1, by the Board of Public Works, for constructing sanitary sewers in several streets. D. H. Foster is City Clk.

OSHKOSH, WIS.—Bids are asked until Sept. 1, by the Board of Public Works, for constructing sewers in Knapp and Light Sts. George H. Randall is City Engr.

MILWAUKEE, WIS.—MEYERS & WEST are reported to have secured the contract for constructing a section of the 30th St. tunnel. The contract provides for laying 1,606 ft. of 96-in. brick sewer under 30th St., between Fond du Lac Ave. and Burleigh St., at $22.10 per ft., or a total of $37,481.

OTTUMWA, IOWA.—Plans have been prepared for a storm sewer system to be constructed at an estimated cost of $90,000. C. R. Allen is City Engr.

DES MOINES, IOWA.—We are officially advised that the KING-LAMBERT CO. has contract to construct the sewer system in the northwestern part of the city at $21,500. George D. Dobson is City Engr.

DULUTH, MINN.—JOHN F. & JEREMIAH F. AUGAR are reported to have secured the contract for constructing storm sewers on Pleasant St., at $10,322.

The sewer proposed to be built in West Duluth, west of Keene Creek, will, it is stated, cost $28,066. That figure does not include the cost of an outlet, which will be $3,450 additional.

WINONA, MINN.—Bids are asked until Aug. 27, by the City Council, for constructing a sanitary sewer in West Howard St.

COLD SPRING, MINN.—Bids are asked until 8 p. m., Aug. 27, by the Village of Cold Spring, Nicholas Wenner, Recdr, for constructing sewer and water-works systems. Claussen, Burch & Pillsbury are Consult. Engrs., 514 German-American Bank Bldg., St. Paul.

KANSAS CITY, KANS.—The PARKER-WASHINGTON CO., of Kansas City, Mo., is reported to have secured the contract for constructing the Oak Ave. sewer in District No. 4, at about $16,000.

SOUTH OMAHA, NEBR.—Bids are asked until 2 p. m., Sept. 4, by Andrew Rosewater. City Engr., Omaha, for constructing the South Omaha relief main sewer from Jones and Sixth Sts. to Pacific and 16th St. Dan B. Butler is City Clk. (Advertised Engineering News.)

FORT MEADE, S. DAK.—Bids are asked until Aug. 31, by Maj. R. B. Turner, Constr. Q. M., for constructing a storm water drain at this post.

ST. LOUIS, MO.—The Prendergast Contracting Co., Carleton Bldg., recently submitted the lowest bids for work on various sewers as follows: For the Gimble Road Joint Sewer District, $26,314, engineer's estimate, $31,000; for Gimble Road Sewer District No. 1, $13,702, engineer's estimate, $16,000; for Gimble Sewer District No. 2, $17,942. The George G. Prendergast Construction Co., Columbia Ave. and Kingshighway, submitted the lowest bid for constructing Fillmore St. Sewer District No. 5, at $39,505, engineer's estimate, $45,000.

The Board of Public Improvements has awarded contracts as follows: Ninth St. Sewer No. 3, and 13th St. Sewer No. 6, MEYERS CONSTRUCTION CO., $49,523 and $14,471, respectively; Harlem Creek Sewer No. 2, McINTYRE & TEESE CONSTRUCTION CO., $46,489.

ST. CHARLES, MO.—Bids are asked until 2 p. m., Sept. 7, by the City, C. H. Kansteiner, Clk., for constructing sewer system and for constructing emergency pumping plants for the same. Louis Ringe is Mayor; Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs. (Advertised Engineering News.)

CLAREMORE, IND. T.—We are officially advised that N. S. SHERMAN, of Oklahoma, Okla., has secured contract, at $17,500, for constructing storm sewer in Claremore. W. P. Bullock, Kansas City, Mo., is Engr.

WEATHERFORD, TEX. — HAMILTON BROS., of Fort Worth, Tex., have contract, at $20,000, for constructing sewer system.

PALOUSE, WASH.—The Potlatch Lumber Co., it is reported, has awarded a contract to L. C. BROAD, of Spokane, Wash., to lay 14,000 ft. of 6 to 10-in. pipe, at $7,000. The Potlatch Lumber Co. is to furnish the material.

ABERDEEN, WASH.—The City Attorney of Aberdeen has been instructed by the Council to draw up an ordinance for the construction of Sewer District B.

CHEMAWA, ORE.—Bids are asked by the Commissioner of Indian Affairs, Department of the Interior, Washington, D. C., until 2 p. m., Sept. 13, for constructing sewer system at Chemawa.

KAMLOOPS, B. C.—A sewer system will be installed at Kamloops, B. C., at a cost of about $45,000.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

GOFFSTOWN, N. H.—Bids are asked until Aug. 25, by A. W. Dean, State Engr., Concord, for grading and surfacing with gravel about 3,300 ft. the Mast Road, Goffstown.

CONCORD, N. H.—Bids are asked until Aug. 25, by A. W. Dean, State Engr., at Concord, for grading and surfacing with gravel about 7,200 ft. of the Tufton Borough Road, in the town of Wolfeborough, about 3,000 ft. of Chester Road, in Auburn and portions of Providence Road, Strafford Rudge and Crow Point, in Strafford; also Sept. 3 for macadamizing Pittsfield Road, cost $4,000, and Seabrook gravel road, cost $6,500.

BOSTON, MASS.—A contract for the grading and embankment work in connection with the proposed abolishment of the Dudley St. grade crossing on the Midland Division has just been awarded by the New York, New Haven & Hartford R. R. Co. Edward Gagel, Ch. Engr., New Haven, Conn., to J. K. RYAN, of New York, N. Y. The estimated cost of this work is $400,000. William Jackson is City Engr.

NEW BRITAIN, CONN.—MACDONALD & HENNESSEY, of Middletown, have been awarded contract for macadamizing a number of streets, at $2.39 a lin. ft.

WATERBURY, CONN.—We are officially informed that an additional contract for 12,000 sq. yds. of bitulithic pavement has been awarded to the WARREN BROS. CO., 93 Federal St., Boston, Mass.

NEW YORK, N. Y.—The lowest bid received Aug. 15, by John W. Brennan, Pres. Bd. Trustees, Bellevue and Allied Hospitals, for excavating, sodding and general work in laying cut grounds at the new Harlem hospital, was submitted by Kelly & Kelley, at $20,826.

Bids are asked until 3 p. m., Aug. 30, by the Department of Parks, Moses Herman, Pres., for constructing approaches to Baird Court, in the New York Zoological Park, in Bronx Park, and for erecting concourse entrance in the New York Zoological Park.

We are officially advised that contract was awarded to U. S. WOOD PRESERVING CO., 29 Broadway, on July 28, for repaving the Southern Boulevard from Boston Road to the St. John's University grounds with wood block. The amount of the contract is $173,170, which will be raised by assessment against adjacent property and from the repavement fund of the city. The area to be paved is 62,450 sq. yds. Joshua Briggs is Ch. Engr. Boro. of the Bronx.

BABYLON, N. Y.—Bids are asked until Sept. 4, by the Village Trustees, Le Roy M. Young, Clk., for macadamizing, grading and curbing various streets in this village. Oscar Darling, Park Row Bldg., is Consult. Engr. (Advertised, Engineering News.)

ALEXANDRIA BAY, N. Y.—J. S. Keeler, C. E., Keeler Block, Alexandria Bay, informs us that he desires list of responsible contractors to look over route of proposed boulevard from this city to Clayton and to submit estimates with a view to taking contract for constructing this roadway. The project is backed by the Alexandria Bay-Clayton Boulevard Co., of which A. R. De Young is Secy. "According to the present plans, the boulevard will be 150 ft. wide, with rows of trees on both sides and a row in the center, making practically two roads of the finest macadam, suitable for carriage and automobile driving, 11 miles of the best road in northern New York."

NEWARK, N. J.—Bids are asked until 3 p. m., Sept. 10, by the Board of Chosen Freeholders of Essex County, for grading and paving with telford pavement portions of Horseneck and Westville Roads, in Essex County. Thomas McGowan is Dir. (Advertised, Engineering News.)

EBENSBURG, PA.—The following are the bids received Aug. 4 by Joseph W. Hunter, State Highway Comr., at Harrisburg, for constructing 5,755 ft. of road in Ebensburg Borough, Cambria County: R. A. Malone, $31,064 and $30,456; J. C. McSpadden, $31,022; Hallam Construction Co., $29,595; William H. Herr & Co., Altoona, Pa., $28,959.

NORRISTOWN, PA.—It is reported that the State Highway Department at Harrisburg has received the following bids for constructing 10,000 ft. of road in Abington and Cheltenham Townships: John McMenamy, Harrison Block, Philadelphia, $12,442, and James W. Ball, of Wynoote, $9,090.

CARLISLE, PA.—The County Commissioners are reported to have awarded contracts for constructing 3,680 ft. of Newton and 4,700 ft. of Mifflin Townships roads to the CENTRAL CONSTRUCTION CO., of Berwick, Pa., at $8,470 and $8,081, respectively.

MEADVILLE, PA.—GEORGE J. VETTER has secured contract at $39,000 for paving Park Ave., Meadville.

WILMINGTON, DEL.—STEWART & DONAHUE are reported to have secured the contract for constructing the Townsend gravel road, at $11,300. Bids were opened July 31.

BALTIMORE, MD.—Bids are asked until 11 a. m., Aug. 29, by the Board of Awards, E. Clay Timanas, Pres., for grading and paving with sheet asphalt, asphalt block or bitulithic various streets in Baltimore. George M. Boteler is Acting City Engr.

WASHINGTON, D. C.—Bids are asked until noon, Sept. 5, by Spenser Crosby, U. S. Engr. Office, 22d and K Sts., N. W., Washington, for setting curb, etc., on approaches of highway bridge across Potomac River. D. C. (Advertised Engineering News.)

Congress has appropriated $10,000 for grading and constructing roadways at the Government Hospital for Insane, $60,000 for macadamizing roadways and improving grounds in Potomac Park, and $3,000 for a steam roller, for the District of Columbia.

LOUISA, VA.—JAMES F. BRADLEY & CO., Richmond, Va., have secured contracts for paving streets in Louisa with granolithic.

PETERSBURG, VA.—PERKINSON & FINN have contract, at $1.09 a sq. yd., for paving the roadway of Old St. with rubblestone.

ROANOKE, VA.—Bids are asked Aug. 28, by W. E. Thomas, City Clk., for repaving a portion of Campbell St. and for paving portions of Campbell Ave. and Jefferson and Commerce Sts. The material to be used is to be vitrified brick or bitulithic, and the cost is to be about $30,000. W. B. Bates is City Engr.

CLARKSBURG, W. VA.—It is reported that GLADDEN, ALEXANDER & STOYLE have contract to construct 25,000 yds. of cement concrete pavements.

RALEIGH, N. C.—See under Sewers.

WAYCROSS, GA.—Bids are asked until Sept. 22 for paving various streets with brick. A. M. Knight is Mayor.

ELBERTON, GA.—It is reported that J. W. Barnettt, Atlanta, Ga., is preparing plans and specifications for paving several blocks of McIntosh St. with vitrified brick.

UNIONTOWN, ALA.—Bids probably will be asked Sept. 1 for paving certain streets in Uniontown. Probable cost, $25,000. S. E. Washburn, Box 216, Montgomery, Ala., is the Engr. W. J. Varden is Mayor.

ANNISTON, ALA.—It is reported that the contract for paving of Noble St., about 10,500 sq. yds., bids opened Aug. 8, has been awarded to SOUTHERN BITULITHIC CO., of Nashville, Tenn., at about $21,500. Thomas E. Kilby is Mayor.

BIRMINGHAM, ALA.—We are officially advised that additional contracts, aggregating 8,970 sq. yds. of bitulithic pavement have been awarded the SOUTHERN BITULITHIC CO., of Nashville, Tenn.

VICKSBURG, MISS.—Bids are asked by the City Council for paving about one mile of Washington St. from Belmont St. to Glass Bayou. J. S. Allen, Greenville, Miss., is Engr. Henry Trombridge is City Clk.

NEWPORT, KY.—F. L. McLANE & SONS have been awarded the contract for improving Eleventh St., at $7,940.

LOUISVILLE, KY.—Bids are asked until Aug. 31, by the Board of Public Works, for paving two sections of roadway with asphalt, and for curbing the same. Estimated cost, $17,000.

PIQUA, OHO.—R. D. COLBURN, West Milton, Ohio, has been let contract, at $3,986, for paving 2,130 sq. yds. with brick. H. H. Whitlock is City Engr.; W. B. Mitchell is Clk. Bd. Pub. Service.

BLUFFTON, OHIO.—A. J. BOGART & CO., of Columbus Grove, have been awarded a $50,000 paving contract at Bluffton.

NORWALK, OHIO.—W. S. HADLEY, of Canton, Ohio, has the contract for paving two sections of Benedict Ave. and East Main St., at $20,000.

HAMILTON, OHIO.—The ANDREWS ASPHALT PAVING CO., it is reported, has the contract for improving Dayton St., at $35,681.

LORAIN, OHIO.—Bids are asked until 1 p. m., Sept. 4, by the County Commissioners at Elyria, O., E. Haserodt, Audr., for paving the west approach to the Erie Ave. bridge in Lorain.

WARREN, OHIO.—Bids are asked until Aug. 30, by the Commissioners, for constructing various turnpikes and for extending various streets.

CLEVELAND, OHIO.—Bids are asked until Aug. 28, by the Board of Public Service, A. R. Callow, Secy., for macadamizing a portion of Western Boulevard.

CINCINNATI, OHIO.—The bids received Aug. 9, for improving Columbia Ave., were rejected, all being too high. The lowest was that of the Kirchner Construction Co., $86,967.

KOKOMO, IND.—J. H. WATSON has secured contract for macadamizing Delphos St.

PAOLI, IND.—The contract for constructing Lost River and Bona gravel roads in North East Townships, bids received Aug. 8, has been awarded to ELWOOD JOHNSON, of Orleans, at $3,094. Aloin B. Ham is County Audr.

WASHINGTON, IND.—Bids are asked until 4 p. m., Sept. 4, by the Commissioners of Daviess County, for constructing highway in Barr Township.

EAST CHICAGO, IND.—AHLBORN & CO., Hammond, Ind., have been awarded contract for paving Fir and 137th Sts., East Chicago, at $37,000.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County until noon, Sept. 3, Henry Grube, County Audr., for construction of the following gravel roads in Parke County: The Ray Ford and Larew road in Adams and Washington Townships; the Perry Huxford and the Rukes roads in Florida Township; the Strong, Seybold, Guion, Needmore and Spencer roads in Greene Township.

RUSHVILLE, IND.—Bids are asked by the Commissioners of Rush County, until 2 p. m., Sept. 4, at the Court House, for the construction of a gravel road in Noble Township. Albert L. Winship is County Audr.

PETERSBURG, IND.—Bids are asked until 2 p. m., Sept. 3, by the Commissioners of Pike County, for constructing and improving several miles of roads throughout the county. T. W. Basinger is County Audr.

SHELBYVILLE, IND.—Bids are asked by the Board of Commissioners of Shelby County at the Auditor's office, until 10 a. m., Aug. 30, for improvement of the following public highways in Noble Township: The Waldron, Vandalia, Edinburg and Howe roads.

BEDFORD, IND.—Bids are asked until 1 p. m., Sept. 3, by the Commissioners of Lawrence County, for construction of 17 gravel roads. Total estimated length, 23 miles. Walter G. Owens is County Audr.

DETROIT, MICH.—The CENTRAL BITULITHIC CO. has the contract to pave First St., at $10,500; JAMES HANLEY has contract to pave Ferry St. with cedar block, at $18,000; T. E. CURREY, Agney St., with cedar block, at $6,400; W. W. HATCH & SONS, Trombley St. with brick, at $9,400, and LANNANE BROS., Howard St., at $11,000.

WHEATON, ILL.—This city will soon advertise for bids for macadamizing in District No. 2. This will include [illegible] sq. yds. of macadam and 38,041 lin. ft. combined curb and gutter, together with the necessary catch basins and brick crosswalks. The city pays in cash for all this class of work. C. A. Prout is City Engr.

CHICAGO, ILL.—The West Park Commissioners have awarded to the GARDEN CITY PAVING & POST CO., 167 Dearborn St., Chicago, contract for improving Marshall Boulevard, at $79,000.

WAUKEGAN, ILL.—We are officially advised that JAMES CAPE & SONS, Racine, Wis., were on Aug. 10 awarded contract for paving South Geneseo, Belvidere and Marion Sts. with brick, at $13,715, and for macadamizing Franklin St., at $3,633. [illegible] R. Miller is City Engr.

BELOIT, WIS.—Bids are asked Sept. 1 for paving with vitrified brick portions of several streets in Beloit, R. D. Treadway is Chn. Board Pub. Wks.

GREEN BAY, WIS.—We are officially informed that the City will macadamize about 15,000 sq. yds. of road and will construct about 9,500 lin. ft. combined cement curb and gutter. Estimated cost, $1[illegible]. W. W. Read is City Engr.

DES MOINES, IOWA.—We are officially advised that the bids received Aug. 14, by Capt. W. E. Cole, Q. M., at Fort Des Moines, for constructing macadam roads at the post were as follows: Charles Weitz's Sons, Des Moines, $30,407; O. P. Herrick, Des Moines, $26,400; J. C. Likes, Des Moines, $26,932.

CAPE GIRARDEAU, MO. — WILLIAM WOODS & CO. have contract at $13,000 for macadamizing about two miles of street. Arrangements are also being made for paving an additional two miles. George E. Chappell is City Engr.

YELLOWSTONE PARK, WYO.—$50,000 has been appropriated by Congress for improvements here, and $50,000 for constructing wagon road into Ranier National Park.

CHICKASHA, IND. T.—Bids are asked until Sept. 1, by the City, for paving about six blocks. John H. Venable is Mayor.

ST. LOUIS, MO.—The following contracts for paving streets in St. Louis were awarded by the Board of Public Improvements on Aug. 14: To the PARKER WASHINGTON CO. OF WEST VIRGINIA, 4500 Duncan St., Vine Grove Ave., at $6,735; Patton Ave., $8,001; Minerva Ave., $6,324; Page Boulevard, $23,752. To TRINIDAD ASPHALT MFG. CO., 317 South 21st St.: Arkansas Ave., $5,979. To the BARBER ASPHALT PAVING CO., Holland Bldg.: Tower Grove Ave., $35,362. To WILLIAM R. BUSH CONSTRUCTION CO., Holland Bldg.: Nebraska Ave., $5,830; Compton Ave., $24,942; Dakota St., $4,559; Michigan Ave., $11,075. To G. CYERMANN & BRO., 1216 South Grand Ave.: California Ave., $12,135; Missouri Ave., $5,892; Michigan Ave., $5,809; California Ave., $3,887; Second St., $3,078. To the HANICK QUARRY & CONSTRUCTION CO., Euclid and Lorraine Sts.: Belt Ave., $14,201. To the GRANITE BITUMINOUS PAVING CO., Equitable Bldg.: Grand Ave., $3,113; Theresa Ave., $11,810; Boyle Ave., $24,002; Lee Ave., $7,083; Carr Ave., $17,824; Park Ave., $29,760, $26,152 and $14,963. To WILLIAM H. REDEMEYER: Tyler St., $4,892. To HEMAN CONSTRUCTION CO., Fullerton Bldg.: Munroe St., $4,056.

SAN DIEGO, CAL.—It is reported that the BARBER PAVING CO., of Los Angeles, has been awarded the contract for the paving of D St., between Sixth and Twelfth Sts., at $18,000. The surface of the paving will be asphalt two ins. thick. Rock, sand and asphalt will form the foundation.

BOISE, IDAHO.—The WARREN CONSTRUCTION CO. on Aug. 9, secured the contract for paving District 7, about 21 blocks, with bitulithic, at about $104,207.

TORONTO, ONT.—The BARBER ASPHALT CO. is stated to have secured the contract for paving with asphalt portions of Gerrard, Grace, Dovercourt Road and Delaware Ave., for $44,872.

DAUPHIN, MAN.—It is reported that about 9,000 sq. yds. granolithic sidewalks, to cost about $10,500, will be made. William Murray is City Clk.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

DOVER, N. H.—The Cocheco Cotton Mfg. Co. is to build a machine shop 60 × 150 ft.

ATHOL, MASS.—The L. S. Starrett Co. is building an addition to its plant 35 × 288 ft., four stories high. The structure will be fitted with automatic sprinklers, fireproof doors and other up-to-date improvements.

CAMBRIDGE, MASS.—The Eastern Expanded Metal Co., Paddock Bldg., Boston, has secured a site here and will erect a reinforced concrete factory building which it expects to have completed by Nov. 1.

BOSTON, MASS.—The Marshall Electric Mfg. Co. is to build a concrete, fireproof manufacturing plant during the fall. Considerable machinery will be required.

LYNN, MASS.—Hemmingway & Son have let the contract for a two-story machine shop to cost $6,000.

LAWRENCE, MASS.—Clarence H. Josslyn has under construction foundry buildings which will cost about $60,000.

MILLBURY, MASS.—Daniel MacDuff proposes to start another thread mill in this place, which will produce linen thread for shoemaking purposes.

PAWTUCKET, R. I.—The James Brown Machine Co.'s plant has been sold to a Boston syndicate, and it is reported will build a duplicate of the present structure and will operate the entire plant.

The Narragansett Textile Co. has awarded the contract for the erection of a large mill to be erected at Esten Ave. and Noshassuck St., to The BENJAMIN F. SMITH CO. Estimated cost, $15,000.

PROVIDENCE, R. I.—The United Wire & Supply Co. will add a 2-story brick structure 72 x 105 ft. to its present plant. All machinery will be driven by separate motors.

The Weybosset Mills of this city are to erect a new building on the site of the old wooden building which has been standing in the rear of the present mill. The new building will be three stories high and have a monitor roof. The first two floors are to be used for storage and the third is to be equipped for the sewing department.

The Cra[illegible] Thread Mill at Moosup is to be enlarged by a 2-story addition, 60 ft. long on the north side, and a 3-story, 80-ft. long addition on the south side. This will more than double the present capacity of the plant, which has been run day and night for the past sixteen years. The additions will make the night force unnecessary.

MYSTIC, CONN.—The Page Boiler Co. has begun the manufacture of boilers, using a part of the foundries of the Standard Machinery Co. The Page Co. has plans prepared for an extensive plant on which bids will be received until fall.

MIDDLETOWN, CONN.—Wilcox, Crittenden & Co., manufacturing marine hardware, have let the contract for a 4-story brick structure 60 x 100 ft., to be used as a machine shop, grinding room and for storage purposes.

TORRINGTON, CONN.—The Coe Brass Mfg. Co. will build a new machine shop.

NEW YORK, N. Y.—The Pease Piano Co. intends to erect a 5-story factory from plans by Rouse & Sloan, Archs., 11 West 43d St., on the plot, 125 × 100 ft., at Whitlock Ave. and 161st St. The estimated cost of the building is $60,000.

COATESVILLE, PA.—It is reported that the American Locomotive Co. will establish its plant here.

CHESTER, PA.—The Prospect Yacht, Gas Engine & Launch Co. will build a plant near here this year. It has $100,000 under a New Jersey charter. H. E. Dautzehocher, of Philadelphia, is Pres.

TACONY, PA.—The contract for the erection of a factory building to be erected here has been let to WM. STEELE & SONS, 16th and Arch Sts. It is to be a 4-story, reinforced concrete building, 100 × 155 ft. Power plant and special equipment required.

FRANKFORD, PA. (Philadelphia post-office.)—Stearns & Castor, Archs., Girard Bldg., are preparing plans for a factory building. It is to be a 4-story, brick and steel building, 80 × 200 ft., of fireproof construction; power equipment and special machinery required.

BALTIMORE, MD.—The Electrical Construction Co. was incorporated recently to manufacture and install electrical wires and apparatus, by Ambrose Fleming, Kenneth Fraser, B. Carroll Shipman, Harry K. Brooks and Elmer J. Jones. The authorized capital stock is $5,000.

WASHINGTON, D. C.—A. B. Mullett & Co., Archs., 1411 F St., N.W., are preparing plans for a bakery for Holmes & Son at First and E Sts. It will be three stories high. Power equipment and special machinery will be required.

LOWELL, N. C.—The McAdams Cotton Mill Co. will soon begin the erection of a $10,000 spinning mill on its property at Lowell.

HIGH POINT, N. C.—J. S. Carr, of Durham, having purchased the Centaur Hosiery Mills at High Point, will enlarge the plant by adding 100 knitting machines, investing about $50,000. The plant is to be incorporated as the Durham Hosiery Mills No. 3.

GOLDSBORO, N. C.—The Goldsboro Knitting Mills Co., of Goldsboro, with $250,000 total authorized capital stock, of which $10,000 has been paid in, has been incorporated. The incorporators are: George C. Royal and John L. Borden, trading as Royal & Borden; A. N. Kornegay, N. O'Berry, B. G. Thompson, G. A. Norwood, Jr., W. H. H. Cobb, E. B. Borden and M. J. Best.

FORKSHOAL, S. C.—At a recent meeting of the stockholders of the Fork Shoals Cotton Mills Co. it was decided to increase the stock of the company from $50,000 to $100,000. The additional capital is to be expended at once in installing additional machinery and in taking up the surplus of electric power recently acquired.

CALHOUN FALLS, S. C.—W. L. Cox and associates of Anderson are organizing a cotton mill at Calhoun Falls, which is to have 25,000 spindles and an outfit of looms to make sheetings. The capital stock is to be $400,00. Construction will begin about Oct. 1.

CEDARTOWN, GA.—The Cedartown Knitting Co., of Cedartown, will enlarge its present plant, which is equipped with 100 knitting machines and employs 150 operatives. A 2-story brick addition, 75 × 32 ft., will be built and equipped with modern machinery as rapidly as the necessary operatives can be obtained.

HAMILTON, OHIO.—The contract for building what is said to be the largest paper mill in the United States has been awarded to FRANK B. GILBRETH, 34 West 26th St., New York, by the Champion Coated Paper Co., of Hamilton. This mill is located on the Miami River, at Hamilton, and is over a quarter of a mile in lengtth. The work consists of brick and reinforced concrete. The same owner, engineer and contractor have also in process of construction the largest pulp and fiber mills in the world at Canton, N. C., which when completed will cover twelve acres of ground. They will furnish all the pulp required for the Hamilton, Ohio, mill.

COLUMBUS, OHIO.—The Hayden-Corbett Chain Co. has let contracts for extensive additions which will double the capacity of its plant. These will be built out of the surplus of the company.

HAMILTON, OHIO.—The Niles Tool Works Co. is making preliminary plans for machine shop, foundry and blacksmith shop extensions.

ANDREWS, IND.—The Andrews Cabinet Co. has incorporated with a capital of $25,000. The company will establish a cabinet manufacturing plant in this city.

BOONEVILLE, IND.—H. Barris, former Mgr. of the Evansville glass plant, is preparing to construct a $75,000 glass plant in this city.

FORT WAYNE, IND.—The Fort Wayne Electric Works, J. J. Wood, Gen. Mgr., will erect a factory for the manufacture of a patent lock for incandescent globes.

INDIANAPOLIS, IND.—The KINSER CONSTRUCTION CO., of Terre Haute, has been awarded a contract to do the excavating for the New York Central's R. R. Co.'s new car shops near this city.

ALBION, MICH.—The Albion Malleable Iron Co. will build a foundry 252 × 526 ft., install six furnaces and double its output, enabling it to employ 300 molders. The company was incorporated in 1889, and has been turning out a general line of malleable castings.

GRAND RAPIDS, MICH.—The H. B. Feather Co. will erect a new factory at West Division and Third Sts. It is to be 105 × 133 ft.

CHICAGO, ILL.—The Heath & Milligan Mfg. Co. will erect a modern paint factory here on Lumber St. It is said that the factory will have the largest producing capacity of any paint factory in the world.

LA CROSSE, WIS.—The La Crosse Boiler Co. is preparing plans for a new brick factory building as an addition to its present north side plant.

WATERLOO, IOWA.—The Kelly & Taneyhill Co., manufacturing drills, is to erect a new factory building.

ST. PAUL, MINN.—The Northern Malleable Iron Co., of this city, has purchased property at Wells and Arcade St., and contemplates erecting a large foundry there. Estimated cost, $100,000.

FORT WORTH, TEX.—A cement plant is to be established near this city to cost $1,000,000 by the Iola Portland Cement Co. Messrs. Biddle and Ward are interested in the enterprise.

PUEBLO, COLO.—The Santa Fe Railroad will add a planing mill and car repair shop to its works here.

PALOUSE, WASH.—Plans have been drawn in the office of G. M. McDowell, Contracting Engr., by F. A. Lathrop, for a plant for the Palouse Pottery Co. The plant will comprise a number of buildings, occupying an entire block, 400 × 400 ft. The company will manufacture roofing tile (the only one on this coast), brick, fire brick, sewer pipe, pottery. Contracts for equipment have been awarded as follows: Machinery, ARNOLD-CREGER CO., New London, O.; brick machinery, ADRIAN MFG. CO., Adrian, Mich., and WELLINGTON MACHINERY CO., Wellington, O. The entire plant will cost about $68,000.

PETERBOROUGH, ONT.—The Indiana Steel Rolling Mills, Newcastle, Ind., will establish steel rolling mills here.

NIAGARA FALLS, ONT.—The Rampo Iron Works is to establish a branch here, where it has secured a site of 13 acres between the Wabash & Michigan Central Rys. The municipal council will give a $3,000 bonus and a fixed assessment of $1,000 on the site for ten years.

WOODSTOCK, ONT.—The Gilson Engine Co., Port Washington, Wis., is to establish a Canadian branch, and is negotiating with Berlin and Woodstock, Ont., regarding a site and assessment concessions.

DOMINION, QUE.—The Dominion Wire Mfg. Co., Montreal, will establish here, near Montreal, a furnace and rod mill at a cost of about $500,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

PIERS, ETC.—Philadelphia, Pa.—See "Pennsylvania R. R.," under Railroads, on page 62.

WHARF.—Sacramento, Cal.—Bids are asked until Sept. 4, 8 p. m., by M. J. Desmond, City Clerk, for a new wharf and warehouse for the city.

DRY-DOCK.—Cleveland, Ohio.—The American Shipbuilding Co. may construct a dry-dock at Old River and 14th St., N. W. Probable length, 1,000 ft.

ORE DOCK.—Superior, Wis.—SCHMIDT BROS. & HILL, of this city, have contract for rebuilding ore dock No. 1 for the Great Northern Ry. Co. at Allouez.

DREDGING.—Wilmington, Del.—Bids are asked until Sept. 5 by Major C. A. F. Flagler, Engrs., for dredging the Christiana River, between Market and Third Sts.

DAM.—Napa, Cal.—The contract for the construction of the dam at Wicks flat, near Napa State Hospital, has been awarded to W. J. SCHMIDT, of Berkeley, at $53,000.

SUBWAY.—Reading, Pa.—The HAWMAN CONSTRUCTION CO. has been awarded contract to build the Spring St. subway, under the Philadelphia & Reading Ry. tracks.

DREDGING.—Mobile, Ala.—Bids are asked until noon, Sept. 22, by Capt. J. B. Cavanaugh, Engr., for dredging in harbor at Mobile. (Advertised, Engineering News.)

DITCH.—Alexandria, Minn.—E. P. Wright, County Audr., will receive bids for constructing a ditch. Two years will be allowed for the completion of the work. Cost, $60,000.

DREDGING.—Boston, Mass.—The EASTERN DREDGING CO., 247 Atlantic Ave., Boston, has been awarded contract for dredging in Fort Point Channel, Boston. Cost, about $52,000.

LEVEE.—New Orleans, La.—Bids are asked until Aug. 30 by Capt. J. F. McIndoe, Engrs., New Orleans, for constructing about 137,000 cu. yds. new levee at Bougere, in the Lower Tensas Levee District.

DREDGING.—Ipswich, Mass.—Bids are asked by the Board of Harbor and Land Commissioners, Boston, until Sept. 6 for dredging three shoals or bars in Ipswich River in the town of Ipswich.

STADIUM.—Syracuse, N. Y.—The contract for the erection of the stadium for Syracuse University has been awarded to the CONSOLIDATED ENGINEERING & CONSTRUCTION CO., of Syracuse.

DRAIN.—Eldora, Iowa.—Jay S. Newcomer, County Audr., states that the contract for constructing a tile drain in Drainage District No. 2 has been awarded to AUSTIN ROREM, of Radcliffe, for $5,096.

ELECTRICAL SUBWAY SYSTEM.—West Point, N. Y.—Bids are asked by the Quartermaster, U. S. Military Academy, until noon, Sept. 22, for construction of an electrical subway system. (Advertised, Engineering News.)

DAM.—Hermiston, Ore.—Plans and specifications for dam at Hermiston, for U. S. Reclamation Service, are on file at office of Engineering News, New York. Bids are asked until Sept. 17, as advertised in Engineering News.

DITCH.—Godfrey, Minn.—The Ditch Viewers of Godfrey are stated to have recommended the construction of a ditch about five or six miles long. Estimated cost, $8,384. Work probably will be commenced in the spring.

DITCH.—Fergus Falls, Minn.—Martin Aalberg, of Henning, Minn., is Engr.-in-Charge of the 13-mile ditch which is to be constructed in Otter Tail and Wilkin Counties. Bids for construction of this ditch will be received about Sept. 25.

DAM.—Columbus, Ohio.—Bids are asked until noon, Sept. 14, for building a dam across the Walhonding River, six miles west of Roscoe, Ohio. Charles E. Perkins, Ch. Engr., State Bd. Pub. Works. (Advertised Engineering News.)

BEAR TRAP.—Wheeling, W. Va.—One bid was received by Major Geo. A. Zinn, Engrs., on Aug. 14 for delivering iron, steel, etc., for bear trap dam No. 18, Ohio River. The Penn Bridge Co., Beaver Falls, Pa., submitted bid at $8,700.

WATER TOWER, HOOK AND LADDER TRUCKS.—New York, N. Y.—Bids are asked until Aug. 27, 10:30 a. m., for furnishing to the Fire Department one 50-ft. water tower and two 85-ft. aerial hook and ladder trucks. John H. O'Brien, Comr.

STORAGE WORKS.—Conculiy, Wash.—Plans and specifications for storage works, etc., near Conculiy, for U. S. Reclamation Service, are on file at office of Engineering News, New York. Bids are asked until Sept. 1, as advertised in Engineering News.

EMBANKMENT.—Boston, Mass.—Bids are asked until 2.30 p. m., Sept. 10, for building section 3 of the Boston marginal conduit, and section 1 of the Boston embankment. Hiram A. Miller, Ch. Engr., Charles River Basin Comn. (Advertised, Engineering News.)

FIRE ALARM TELEGRAPH SYSTEM.—New York, N. Y.—Bids are asked until 10:30 a. m., Aug. 27, by John H. O'Brien, Comr. Fire Department, for establishing, building and equipping an extension of the fire alarm telegraph system in the Boro. of Queens.

LEVEE.—Monroe, La.—It is reported that bids will be received Aug. 25 (readvertisement) at the U. S. Engineer's Office at Vicksburg, Miss., by Commissioners of the Tensas Basin Levee District, J. Q. Graves, Pres., Monroe, for constructing Chicot Front Levee, Desha County, Ark., in all about 265,000 cu. yds.

DREDGING.—Boston, Mass.—Bids are asked until 2 p. m., Sept. 6, for dredging a channel and anchorage basin on the northerly side of Boston Harbor, near the wharf of the Cottage Park Yacht Club at Winthrop. Frank W. Hodgdon, Ch. Engr., Harbor and Land Comrs.

WROUGHT-IRON FENCE.—New York, N. Y.—Bids are asked until 2 p. m., Aug. 29, for furnishing and erecting a wrought-iron fence with gates at old Ridgewood pumping station, Boro. Brooklyn. William B. Ellison, Comr. Dept. Water Supply, Gas and Electricity.

REMOVING EARTH, BOULDERS.—Detroit, Mich.—Bids are asked until 2 p. m., Sept. 11, for removing earth and boulders from Section 3, channel along Bois Blanc, Island Range, Detroit River. Col. Charles E. L. B. Davis, Engrs. (Advertised, Engineering News.)

DREDGING.—Detroit, Mich.—Three bids were received on Aug. 17 for dredging Shoal 28, in Mud Lake, St. Marys River. They were as follows: Great Lakes Construction Co., Buffalo, N. Y., $23.962; James Pryor, Houghton, Mich., $35,677; Great Lakes Dredge & Dock Co., Chicago, $36,210.

STEEL BARS.—Billings, Mont.—The Secretary of the Interior has awarded a contract for furnishing 405,000 lbs. of steel bars, for the Shoshone Project, Wyoming, to the EXPANDED METAL CORRUGATED BAR CO., St. Louis, Mo. Itemized bids on this work are given in Engineering News this week, under "Contract Prices."

WHARF, DREDGING.—Ft. Hunt, Va.—The following are the bids opened on Aug. 10 by the Constructing Q. M. for the construction of a timber wharf and warehouse and the dredging of channel at Ft. Hunt: Carter & Clarke, of Washington, D. C., $44.866; Lyon Bros., Washington, D. C., $46,000, and C. J. Pierce, of Philadelphia, Pa., $70,000.

DITCHES.—Moorhead, Minn.—John Eid, County Audr., states that bids will be received on Aug. 28 for constructing ditches Nos. 4, 5, 6, 7, 8 and 18; estimated cost, $71,773.

The contract for digging and constructing Ditch No. 9 has been awarded to LANDIN & JONES, of Moorhead, at $7,292.

FIRE BOATS.—New York, N. Y.—Bids were received on July 31 for constructing three steel screw propelling fire boats. Contracts were awarded as follows: Boat No. 1, JAMES REILLY REPAIR & SUPPLY CO., 78 Beach St., $129,400. Boats No. 2 and No. 3, to ALEX MILLER & BRO., 10 Morris St., Jersey City, N. J., at $118,925 each. Erroneously reported last week.

DITCHES.—Clarion, Iowa.—It is reported that contracts have been awarded by the Board Supervisors, as follows, for constructing several county ditches: R. H. McWILLIAMS, of Mattoon, Ill., No. 14, estimated cost $40,000; GABLER & SHOTTS, of Mason City, No. 13, $8,500; No. 15, $11,000, and No. 16, $6,000; M. H. THOMAS, of Clarion, No. 20, $6,600.

COPPER.—Washington, D. C.—Bids were opened Aug. 7 at the Bureau of Supplies and Accounts, Navy Dept., Washington, for 780,000 lbs. Calumet and Hecla copper, to be delivered at the Washington Navy-Yard. Bids were as follows: Jas. Clendenin, Baltimore, $148,746; Furney Mining Co., New York, $147,030; United Metals Selling Co., New York, $146,250.

OBSERVATION TOWER. — Vicksburg, Miss.—Capt. W. S. Rigby, Secy. National Park Comn., has recommended to the Secretary of War for acceptance the plan of the W. T. Young Bridge Co. for a reinforced concrete observation tower, 86 ft. high, with five series of columns, arranged in circular form and with a circular stairway in center, to cost $7,490.

SODIUM NITRATE.—Washington, D. C.—Bids were opened Aug. 16 at the Bureau of Ordnance, War Dept., Washington, for 5,600,000 lbs. of sodium nitrate, and the following bids were received: Wessel, Duval & Co., $2.64¼ per 100 lbs.; delivery seven months; W. R. Grace & Co., $2.66; delivery October and November; Heller, Hirsh & Co., $2.70; delivery seven months; C. E. Morris & Son, $2.72; delivery October, November and December.

SEA-WALL.—Philadelphia, Pa.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Sept. 18, for building 118 ft. of sea-wall at naval magazine, Fort Mifflin.

Bids are asked by Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Sept. 8, for constructing a sea-wall near new dry dock, navy yard, League Island, Pa. Mordecai T. Endicott, Ch. Bureau.

PILE PIERS.—Manitowoc, Wis.—Bids were received by Maj. W. V. Judson, Engrs., as follows, on July 30, at Milwaukee, Wis., for removing old piers and building pile piers, in Manitowoc Harbor: Greiling Bros., of Green Bay, Wis., $81,765, for supplying white pine, Murry or Oregon fir, and $82,269 for long-leaf yellow pine; P. Nelson, of Muskegon, Mich., $118,068 for Oregon fir and long-leaf and $117,286 for Murry fir. The estimated cost was $75,000.

CANAL WORK.—Huntley, Mont.—The Secretary of the Interior has executed a contract with HUGES & OLSEN, of Butte, Mont., for the construction and completion of Division 3, main canal and high line canal, Huntley project, Mont. This work consists of about ten miles of main canal and seven miles of high line canal, and involves the excavation of approximately 360,000 cu. yds. of material. According to the terms of the contract the work is to be completed by May 15, 1907.

HYDROGRAPHIC STEAMER. — Ottawa, Ont.—The BRITISH COLUMBIA MARINE RAILWAY CO., Esquimalt, B. C., have been awarded the contract by the Canadian Government for a hydrographic steamer to be used on the Pacific Ocean. The price is $143,000.

Contract for hydraulic steamer for British Columbia coast service has been awarded to ARMSTRONG, WHITWORTH & CO., Newcastle-on-Tyne, England, at $107,750.

CANAL WORK.—Glendive, Mont.—The Secretary of the Interior has executed a contract with NEWMAN & HOY, of St. Paul, Minn., for the construction and completion of the work of Division 3, main canal, Lower Yellowstone irrigation project, Mont. and N. Dak. The work called for in the contract consists of about nine miles of canal, involving 1,088,000 cu. yds. of excavation, 100,000 cu. yds. of overhaul, 900 lin. ft. of terra cotta pipe, and 2,000 cu. yds. of puddling.

CANAL WORK.—Browning, Mont.—The Secretary of the Interior has authorized the Reclamation Service to procure such machinery, tools, appliances, equipment and animals as may be necessary in the construction of 14 miles of the main canal, St. Mary irrigation project, Mont., and to prosecute the work by force account. The Secretary recently advertised for proposals for this work, but only one bid was received. That bid was so much in excess of the estimates of the engineers that it was rejected.

CEMENT.—Mitchell, Nebr.—The Secretary of the Interior has awarded a contract to the ILLINOIS STEEL CO., of Chicago, Ill., for furnishing 40,000 bbls. of Portland cement for use in construction work in connection with the North Platte irrigation project, Nebr., and the Shoshone irrigation project, Wyo. The cement will be furnished for $1.40 per bbl., f. o. b. cars at the mill of the contracting company, South Chicago, Ill. All deliveries of cement under this contract are to be completed before Feb. 1, 1907, the maximum amount required in any one month not exceeding 10,000 bbls., and 60 days' notice will be given of the delivery requirements.

SUBWAY.—Washington, D. C.—The Pennsylvania R. R. Co., on Aug. 15, awarded a contract to the DRAKE & STRATTON CO., of Philadelphia, for construction of a subway through the southern section of Washington, D. C. The contract provides for the grading, masonry work and track laying for a four-track line from Ninth St. to Water St. It also provides for three freight delivery yards—one each at Sixth St., Ninth St. and 14th st. The cost is estimated at $1,750,000. This contract is the last of those connected with the extensive improvement of the Washington terminals, which is being made by the Pennsylvania and Baltimore & Ohio Railroads.

LIGHT-HOUSE.—Vallejo, Cal.—Bids are asked until 10 a. m., Sept. 18, by Bureau of Supplies and Accounts, Navy Dept., for the erection on sites to be selected by the Government on the light-house reservations at Table Bluff, Cal.; Cape Blanco, Cal., and North Head, Ore., respectively, of a combined operating and dwelling-house, power-house, oil-house, water tank, walks, fencing, piping, etc., and for the transportation from the navy-yard, Mare Island, Cal., and erection on the sites of wireless telegraph masts and rigging. Copies of specifications and drawings can be obtained upon application to the Equipment Officer, navy-yard, Mare Island, Cal. Applications for proposals should refer to Schedule 93.

CANAL.—Port Huron, Mich.—Bids were received by R. D. O'Keefe, Supt. Pub. Works, on Aug. 3 for furnishing all material and labor for the uncompleted portion of the canal from Lake Huron to Black River, in accordance with plans and specifications and contract of the Cuyahoga Contracting Co. This bid will be to take up the work from the point where this contracting company stopped. It is estimated that there are about 270,000 yds. of excavating; double-track railway bridge; one highway bridge (iron on the ground); water gate, and 350 ft. of protection pier. John C. Carland & Co., of Toledo, Ohio, offered to do the work furnishing all of the material, etc., for $84,500. A bid was received from M. Rabbitt & Sons, of Toledo, who bid 27 cts. a cu. yd. for excavating with extra charge for bridges, cement, piles, etc.

DREDGING.—Philadelphia, Pa.—Four bids were received on Aug. 15 by Department of Public Works for dredging the channel of the Delaware River. The reported prices are as follows: Along the Schooner Ledge range from the south line of Pennsylvania to Schooner Ledge rock area—American Dredging Co., $159,600; Coastwise Dredging Co., 17 9-10 cts. a cu. yd.; P. Sanford Ross, Inc., 17 cts. a cu. yd.; Maryland Dredging Co., 17 cts. a cu. yd. Along the Schooner Ledge Range from the Rock area to the Tinicum Island range—American Dredging Co., $140,200; P. Sanford Ross, Inc., 18 cts. a cu. yd.; Maryland Dredging Co., 18¾ cts. a cu. yd. Along the Lower Horseshoe range, the Compass range at Howell Cove and the Upper Horseshoe range, from Engle Point north to Christian St.—American Dredging Co., $156,500; P. Sanford Ross, Inc., 20 cts. a cu. yd. There will be about 4,900,000 cu. yds. to be dredged.

CANAL IMPROVEMENT.—Albany, N. Y.—The following contracts for the Erie canal improvement have been approved by the Canal Board: Contract 19, for excavating the canal and protecting its sides, rebuilding bridges, constructing highways, masonry culverts, concrete capped pile dock and other incidental details, between the Guardlock at Sulphur Springs, station 6148, and the mouth of Ellicott Creek, station 6806, on section 11, Erie canal, a distance of 12.46 miles. Engineer's estimate is $1,208,150.

Contract 25, for excavating the canal and protecting its sides, constructing locks No. 9 and No. 10, necessary spillways, power plants and appertaining structures, bridge substructures and approaches, retaining walls, roads, and other incidental details, between station 356, about 0.6 mile north of Comstock P. O., and station 1041 + 54, at Dunhams Basin Road. Length, 13 miles. Engineer's estimate is $1,849,831.

Contract 26, for dredging a channel in the Hudson River between the south end of Contract 27, station 1245, at Fort Edward, and north end of Contract No. 1, station 1286 + 33, covering a distance of .76 mile. Engineer's estimate is $59,369.

Contract 27, for excavating the canal and protecting its sides, constructing locks No. 7 and No. 8 and junction lock, necessary spillways, power plants and appertaining structures; and concrete arch bridge, bridge substructures and approaches; retaining walls; highway and other incidental details, between station 1046 + 16, the south end of Contract 25 at Dunhams Basin Road, and the Hudson River at Fort Edward, station 1245. Length, 3.76 miles. Engineer's estimate is $1,148,770. N. V. V. Franchot, Supt. Public Works, will ask for bids on these contracts shortly.

CAUSEWAY. — Galveston, Tex. — James Stewart & Co., Engrs., 135 Broadway, New York, have submitted plans and estimates for proposed causeway across Galveston Bay. V. E. Austin is Secy. Causeway Com. In a report from Charles F. Franson, representing Stewart & Co., the following details were given: "At the meeting between the writer and your committee in Galveston some time ago, when the details of this causeway were discussed, the committee decided to make the structure 125 ft. wide at the top, and to provide for four railroad tracks and two electric car tracks on same. It was found impossible to provide four tracks on a structure of this width, however, owing to the space taken up by the bascule bridges, which made it necessary to lay the tracks more than 13 ft. on centers. The plans were, therefore, worked out as near 125 ft. in width as the top, between the riprap, as possible, and one railroad track was eliminated, as we understood from conversation that in all probability three railroad tracks would be enough. The estimated cost of the structure, as shown on the plan, and as per the specifications, which contemplate the complete laying of three railroad and two electric car tracks, one roadway and one sidewalk, together with bascule bridges for three railroad tracks and roadway and sidewalk, is $1,450,000. If only two railroad tracks and one electric car track are laid complete at the present time, together with roadway and sidewalk and the bridges for the same, then the cost will be approximately $1,390,000. It has required considerable time and study to develop the various methods of construction suitable for a structure of this kind, in order to arrive at the most economical construction, which we believe we have accomplished."

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

RESERVOIR.—Croton Falls, N. Y.—Bids were received on Aug. 7 by the Aqueduct Commissioners, John F. Cowan, Pres., New York City, for constructing a reservoir, including the building of a large masonry dam across the west branch of the Croton River, an earth diverting dam across the east branch of the Croton River and an open connecting channel. The site of the main dam is about one mile by road north of the Croton Falls station of the New York Central & Hudson River R. R., Harlem Division, approximately 48 miles from New York. The site of the diverting dam is about two miles southwest of Brewsters station on the New York Central & Hudson River R. R., Harlem Division, approximately 52 miles from New York. The contract will be required to be completed within 32 consecutive months following the month in which the contract is signed by the Commissioners. The main dam is to be built of Cyclopean masonr th a facing of concrete blocks. The di g dam is to be built of earth and will h a core wall of Cyclopean masonry.

The following bids, in de were submitted by following bidders: as. Molloy & Co., Brooklyn; (b) John Hart Co., 54 Broad St.; (c) Frank Brad 68th St. and North River; (d) Naughton Co., and A. McMullin, 299 Broadway; W. J. Flanagan, Yonkers, N. Y.; (f) C nan, Brenchard & Coleman, Croton, N (g) A. G. Vermilye, 463 West 14th St.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
River controlling works, lump sum	$90,000.00	$50,000.00	$100,000.00	$31,000.00	$50,000.00	$80,0[illegible]	$60,000.00
250 tons steel derrick towers in the main dam (70 tons can be recovered)	100.00	120.00	120.00	80.00	1.00	10[illegible]	1.00
490,180 cu. yds. earth excavation, Class A	.75	.82	.75	1.00	.62	[illegible]	1.00
11,675 cu. yds. earth excavation, Class B	1.65	1.00	1.00	1.25	.62	1[illegible]	1.00
130,000 cu. yds. earth excavation, Class C	.35	1.05	.50	.50	.62	[illegible]	.50
202,025 cu. yds. rock excavation, Class A	1.50	1.86	1.75	1.76	1.75	1[illegible]	1.00
13,800 cu. yds. rock excavation, Class B	4.00	4.00	5.00	3.00	1.75	4[illegible]	5.00
35,850 cu. yds. rock excavation, Class C	1.25	1.86	1.75	1.70	1.75	1[illegible]	1.00
203,500 cu. yds. refill and embanking, Class A	.40	.40	.50	.60	.46	[illegible]	.25
87,620 cu. yds. refill and embanking, Class B	.20	.30	.40	.25	.20	[illegible]	.01
1,000 cu. yds. overhaul, hauled 100 ft.	.03	.06	.02	.04	.25	[illegible]	.01
45,000 sq. yds. grassing	.15	.20	.15	.08	.20	[illegible]	.30
2,700 M. ft. B. M. timber, lumber	.01	54.24	50.00	40.00	40.00	45[illegible]	.01
550 cu. yds. crushed stone and screened gravel for miscellaneous uses	1.50	3.00	2.00	.80	3.00	2.00	2.00
10 cu. yds. rubble masonry	4.50	6.75	5.00	2.00	7.00	4.00	5.00
10,240 lin. ft. round piles	.01	.20	.50	.20	.30	[illegible]	.01
270,000 bbls. Portland cement	1.75	1.80	2.10	1.70	1.75	1.[illegible]	1.80
28,200 cu. yds. concrete blocks	8.50	6.99	10.00	8.50	7.00	10.00	7.00
3,000 cu.yds. monolithic concrete masonry, Class A	7.00	8.00	7.00	7.00	10.00	11.00	7.50
13,600 cu.yds. monolithic concrete masonry, Class B	5.50	8.34	6.00	5.00	5.50	5.50	5.00
3,000 cu. yds. granolithic finish	.50	.94	1.00	.50	.75	.50	.40
Grout of Port'nd cement requiring 2,500 bbls. cement	1.75	2.02	.50	.70	1.00	2.00	.50
262,000 cu. yds. Cyclopean masonry	2.65	3.98	3.40	3.00	2.75	3.00	2.17
1,500 cu. yds. dimension stone masonry	55.00	55.00	35.00	35.00	30.00	50.00	50.00
3,000 cu. yds. block stone masonry	30.00	20.00	18.00	20.00	17.50	35.00	43.00
15,000 sq. ft. face dressing of concrete	.05	.10	.25	.08	.10	.20	.10
25,000 sq. ft. face dressing of stone	.50	.70	.75	.15	.75	.90	.75
5,000 cu. yds. rubble paving, laid in cement mortar	3.25	2.50	3.50	2.00	2.50	3.50	3.50
20,000 cu. yds. dry rubble masonry and paving	2.50	2.70	3.00	2.50	2.50	3.00	2.00
1,000 cu. yds. riprap	1.50	2.70	2.00	1.50	2.00	1.50	1.50
Valves and sluice gates, lump sum	19,000.00	1,000.00	20,000.00	17,500.00	20,000.00	12,000.00	9,000.00
187 tons cast-iron pipes	45.00	50.00	48.00	40.00	50.00	50.00	50.00
55 tons special pipe castings	90.00	120.00	125.00	75.00	100.00	90.00	100.00
55 tons miscellaneous iron castings	90.00	150.00	150.00	70.00	125.00	100.00	100.00
7,000 lbs. miscellaneous brass or bronze castings	.45	.40	.50	.28	.50	.50	.35
24,000 lbs. steel and wrought-iron work, Class A	.08	.09	.08	.06	.07	.10	.10
106,000 lbs. steel and wrought-iron work, Class B	.06	.08	.07	.04	.05	.07	.05
3,000 lin. ft. railings, Class A	2.50	2.00	4.00	1.70	3.00	3.25	2.25
2,000 lin. ft. railings, Class B	2.00	1.00	2.50	.80	2.00	1.50	1.25
2,000 lbs. hauling, caring for and setting metal work furnished by city	.02	.06	.00½	.04	.04	.03	.05
Superstructure of gatehouse at main dam, lump sum	5,000.00	1,000,00	10,000.00	6,000.00	15,000.00	5,500.00	6,000.00
Superstructure of controlling house on the connecting channel, lump sum	6,500.00	1,000.00	5,000.00	3,500.00	10,000.00	3,500.00	3,000.00
Flashboards, stop-planks and wooden gratings, lump sum	1,500.00	1,000.00	5,000.00	2,750.00	3,000.00	3,000.00	2,500.00
45,000 lin. ft. highways, surfacing and miscellaneous work	.75	.64	.30	.65	.25	.20	.40
6,500 sq. yds. private roads and paths	.25	.67	.50	.65	.45	.50	.50
2,000 lin. ft. vitrified pipes 12 ins. or less in diam.	.50	1.00	1.00	.80	1.50	.70	1.00
1,600 lin. ft. vitrified pipe, 15 or 18 ins. in diam.	1.00	1.50	1.50	1.00	2.00	1.20	1.75
75,000 lin. ft. fence and guard rail	.25	.40	.48	.24	.25	.40	.20
100,000 lin. ft. stone boundary walls	.80	.81	.70½	.65	.75	.75	.70
1,600 acres, clearing the reservoir	.01	10.00	20.00	5.00	25.00	10.00	1.00
Total	$3,028,853	$3,710,917	$3,647,180	$3,280,036	$3,045,217	$3,394,502	$2,817,511

*STEEL BARS.—Billings, Mont.—Bids were received on July 24, by the U. S. Reclamation Service, for furnishing 405,000 lbs. of steel bars in connection with the Shoshone Project, Wyoming, as follows: (a) J. Edward Ogden Co., New York, N. Y., f. o. b. Tonawanda, N. Y.; (b) same company, f. o. b. Pittsburg, Pa.; (c) Crucible Steel Co. of America, Pittsburg, Pa., f. o. b. Pittsburg, Pa.; (d) New Jersey Foundry & Machine Co., New York, N. Y., f. o. b. Chicago, Ill.; (e) EXPANDED METAL & CORRUGATED BAR CO., St. Louis, Mo., f. o. b. Minnequa, Colo. (awarded contract); (f) same company, f. o. b. Youngstown, Ohio; (g) Jones & Laughlin Steel Co., Chicago, Ill., f. o. b. Pittsburg, Pa.; (h) James Blake Kendall, Washington, D. C., f. o. b. Pittsburg, Pa.; (i) Carnegie Steel Co., Pittsburg, Pa., f. o. b. Pittsburg, Pa.:

BIDS RECEIVED ON JULY 24 FOR STEEL BARS FOR U. S. RECLAMATION SERVICE AT BILLINGS, MONT.

	(a)[3]	(b)[3]	(c)[1]	(d)[3]	(e)[2]	(f)[2]	(g)[1]	(h)[1]	(i)[1]
5,000 lbs. ⅜-in. bars	$0.0220	$0.0169	$0.0225	$0.02560	$0.0245	$0.0195	$0.0160	$0.0175	$0.0175
87,000 lbs. ½-in. bars	.0195	.0154	.0210	.02270	.0230	.0180	.0145	.0160	.0160
13,000 lbs. ⅝-in. bars	.0185	.0150	.0205	.02215	.0225	.0175	.0140	.0155	.0155
139,000 lbs. 11/16-in. bars	.0185	.0149	.0205	.02215	.0225[4]	.0175[4]	.0140	.0155	.0155
121,000 lbs. ¾-in. bars	.0180	.0144	.0200	.02135	.0220	.0170	.0135	.0150	.0150
12,000 lbs. 13/16-in. bars	.0180	.0144	.0200	.02135	.0220[5]	.0170[5]	.0135	.0150	.0150
28,000 lbs. ⅞-in. bars	.0180	.0144	.0200	.02135	.0220	.0170	.0135	.0150	.0150
Total	$7,516	$6,009	$8,275	$8,907	$9,085	$7,060	$5,643	$6,250	$6,250

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[1] Plain square steel bars.
[2] Johnson square corrugated bars.
[3] Twisted steel bars.
[4] No 11/16 in. bars manufactured; bid on ⅝-in. bars.
[5] No 13/16-in. bars manufactured; bid on ¾-in. bars.

PIPE SEWER.—Evanston, Wyo.—Bids were received as follows on Aug. 6 for constructing a pipe sewer: (a) Craven, Gilman & Zitzman, Ogden, Utah; (b) Doyle & Swartz, Colorado Springs, Colo.; (c) Parker & Bullen, Salt Lake City, Utah; (d) WHEELWRIGHT CONSTRUCTION CO., Ogden, Utah (awarded contract). Bids in detail were as follows:

BIDS RECEIVED ON AUG. 6 FOR CONSTRUCTING PIPE SEWER AT EVANSTON, WYO.

	(a)	(b)	(c)	(d)
2,000 lin. ft. 3-in. tile pipe in place per lin. ft.	$0.10	$0.07½	$0.08	$0.07
5,700 lin. ft. 6-in. tile pipe in place per lin. ft.	.36	.33	.39	.32
900 lin. ft. 8-in. tile pipe in place per lin. ft.	.48	.60	.57	.56
3,000 lin. ft. 12-in. tile pipe in place per lin. ft.	.70	.98	.97	.96
3,700 lin. ft. 15-in. tile pipe in place per lin. ft.	1.09	1.23	1.31	1.20
4 brick manholes, 4 ft. diam., 5 ft. deep	50.00	40.00	42.00	44.00
7 brick manholes, 5 ft. diam., 7 ft. deep	56.50	45.00	50.00	49.00
15 brick manholes, 5 ft. diam., 9 ft. deep	63.00	60.00	62.50	58.00
6 brick manholes, 5 ft. diam., 11 ft. deep	69.00	70.00	65.00	65.50
3,040 cu. yds. trench for 6-in. pipe, 9 ft. deep	1.20	.65	.63	.63
2,660 cu. yds. trench for 6-in. pipe, 11 ft. deep	1.50	.84	.87	.85
600 cu. yds. trench for 8-in. pipe, 9 ft. deep	1.20	.68	.70	.71
300 cu. yds. trench for 8-in. pipe, 11 ft. deep	1.50	1.05	1.10	1.03
200 cu. yds. trench for 12-in. pipe, 7 ft. deep	1.00	.65	.65	.70
1,560 cu. yds. trench for 12-in. pipe, 9 ft. deep	1.30	1.10	1.11	1.00
1,160 cu. yds. trench for 12-in. pipe, 11 ft. deep	1.75	1.20	1.15	1.15
100 cu. yds. trench for 12-in. pipe, 13 ft. deep	2.00	1.50	1.50	1.45
1,700 cu. yds. trench for 15-in. pipe, 5 ft. deep	.80	65	.60	.56
1,300 cu. yds. trench for 15-in. pipe, 7 ft. deep	1.10	.90	.80	.75
700 cu. yds. trench for 15-in. pipe, 9 ft. deep	1.35	1.00	1.05	.96
5,000 ft. lumber left in trench per M	.45	.39	.37½	.30
Total	$28,197	$23,348	$23,796	$22,409
Time for completion	Dec. 1, '06	July 1, '07	June 15, '07	June 1, '07

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until Aug. 24, at 10.30 a. m., by the General Purchasing Officer, Isthmian Canal Comn., Washington, for a variety of engineering and other supplies, including two turret lathes, 3 x 36 ins. and 1½ x 18 ins., respectively; 27,300 lbs. steel rivets, 500 sheets copper, 50,000 blasting caps and other blasting materials, 500,000 lbs. dynamite, etc. Circular No. 323.

CHINESE LABORERS.—Panama. — Proposals will be received by the Isthmian Canal Commission, Washington, D. C., until 10 a. m., Sept. 20, for furnishing 2,500 Chinese laborers, on or before Jan. 7, 1907. Proposal sheet and General Instructions to Proposers are on file at office of Engineering News, New York.

EARTH-SPREADERS. — Panama. — Bids were opened Aug. 16, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing ten earth-spreaders, under circular 321. Only two bids were received: Mann, McCann & Co., Chicago, $51,990; delivery, commence 100, complete 150 days. W. J. Oliver Mfg. Co., Knoxville, Tenn., $33,000; delivery, commence 65, complete 130 days. Bids were rejected. The reason assigned is that a prospective bidder did not receive notification of the opening. The Commission will advertise in a few days for the same number of earth-spreaders.

SEWER GATES.—Manila, P. I.—Bids are asked until noon, Sept. 12, for furnishing the Municipality of Manila, P. I., with 413 sewer gates and sluice valves ranging in size from 8 ins. to 20 ins. in diameter. Address bids to John M. Tuther, Secy., Manila, P. I.

RAILWAY.—Cuba.—The Cardenas Railroad & Terminal Co. has been incorporated in New Jersey with $1,000,000 capital to build a line from Cardenas, Cuba, west to the Peninsula of Hicacos, thence along the peninsula to Puenta Gorda, passing through El Veradero. The office of the company will be at Cardenas. The incorporators are: John S. Fiske, Dewitt Bailey and Paul R. E. Steier, 15 Exchange Pl., Jersey City, N. J.

RAILROAD PROJECTS. — Cuba. — Tomas Palma, President of the Republic, in his semi-annual message to the Cuban Congress, in connection with a plea for the encouragement of immigration, urged State aid in railway extension as a measure of both economic and political importance. The President reminded Congress of the desirability of developing tracts of land, which, though potentially rich, had contributed hitherto neither to the wealth of their owners nor to the State, because of insufficient transportation facilities. The railway subsidy bill which has just passed in its original form provided for a government guaranty of 5% interest on stock. This was deemed extravagant and a direct maximum subsidy of $6,000 per kilometer (0.62137 mile) was substituted. Article 6, instead of stipulating that roads should be built in stated order, was amended to provide that after the expiration of one year, except for the first two named, President Palma was empowered to contract for the construction of any of them. This alteration was intended to facilitate those companies which desired to construct certain roads and which might otherwise have been impeded in their purpose had no application been made to build those which preceded them in the official list. The Cuba Railroad Co. (Ferro-carril de Cuba) will shortly undertake the construction of the lines from Marti through Bayamo and San Luis with a branch to Manzanillo, from Manicaragua to Cienfuegos, and from Camaguey to Santa Cruz del Sur. It is not improbable, moreover, that the same company may build the line from Placetas to Fernandez to connect with the Government line which runs from that place to Casilda. The Cuba Co.'s proposed extensions will aggregate 453 kilometers. Asher Gruvey is Mgr. of Cuba Co., at Camaguey, Cuba. The lengths of the various lines for which subsidies have been authorized are as follows: From Marti to Bayamo and San Luis, with a branch from Bayamo to Manzanillo, 265 kilometers; from Fernandez to Placetas del Sul, connecting with the Cuba Railroad Co., 60; from Manicaragua to Cienfuegos, 52; from Camaguey to Santa Cruz del Sur, 76; from Sagua to San Jose de los Ramos, 96; from Victoria de las Tunas to Puerto Padre, 65; from Cardenas to Coliseo, with branch to Guamacaro, 40; from Guayabal to Nuevitas, 110; from Pinar del Rio to Esperanza, 50; from Matanzas to Canasi, 26; from Guantanamo to Baracoa, 110; from Habana to San Jose, Jaruco and Santa Cruz del Norte, 70; total (approximate), 1,020 kilometers.

The bill seems particularly calculated to facilitate the development of the eastern portion of the island. Camaguey and Santiago provinces are still in the initial stages of their growth. Although they represent 54% of the area of the island, their production has not been correspondingly large, the former having a population of only eight and the latter 26 persons to the square mile, as compared to the 35 and 153 of the other provinces. Great tracts of land, though well suited for the cultivation of sugar, coffee, and fruit, and for grazing purposes, are still in a wild state. With the exception of Jucaro, in the southwest of Camaguey Province, Santiago is the only port of the south coast in railway communication with the rest of the island. On the north coast of San Fernando, Nuevitas, Gibara and Antilla alone draw their freight by rail from the interior. Pres. Palma has ordered that bids be advertised for construction of the twelve lines above mentioned. The New York "Tribune" states that "the purpose of the Cuban Congress to give the benefits of the subsidy unreservedly to the Van Horne Co. is thus defeated." The Cuba R. R. Co. is controlled by Sir William Van Horne, of Montreal, Que.

CONTRACT PRICES.

SEWER.—Ogden, Utah.—Bids were received on Aug. 4 by A. F. Parker, City Engr., for construction of sewers in Sewer District No. 10. We are officially advised that this is the second time bids have been asked on the same work, the first lot received being too high and therefore rejected. Two bids were received. The bidders were: (1) Doyle & Schwartz, Colorado Springs, Colo.; (2) T. P. O'Neill, Ogden. The bids in detail were as follows: (* alternate bid):

BIDS RECEIVED ON AUG. 4 FOR SEWERS, OGDEN, UTAH.

Quantity	Item	(1)	(2)
30,000	lin. ft. 3-in. tile pipe in place, per lin. ft.	$0.07	$0 07
1,150	lin. ft. 6-in. tile pipe in place, per lin. ft.	.55	.35
20,025	lin. ft. 8-in. tile pipe in place, per lin. ft.	.65	.55
4,572	lin. ft. 10-in. tile pipe in place, per lin. ft.	.60	.60
1,913	lin. ft. 12-in. tile pipe in place, per lin. ft.	.90	.80
1,938	lin. ft. 15-in. tile pipe in place, per lin. ft.	1.35	1.20
1,531	lin. ft. 18-in. tile pipe in place, per lin. ft.	1.75	1.60
1,531	lin. ft. 18-in. concrete block sewer, per lin. ft.	2.20*	1.75*
1,732	lin. ft. 21-in. tile, per lin. ft.	2.50	2.40
1,732	lin. ft. 21-in. concrete block sewer, per lin. ft.	3.25*	2.35*
3,042	lin. ft. 24-in. tile, per lin. ft.	3.00	2.90
3,042	lin. ft. 24-in. concrete block sewer, per lin. ft.	3.50*	2 70*
5	brick manholes, 5 ft. diam., 13 ft. deep	80.00	90.00
5	concrete block manholes, 5 ft. diam., 13 ft. deep	93.00*	75 00*
23	brick manholes, 5 ft. diam., 11 ft. deep	85.00	80.00
23	concrete block manholes, 5 ft. diam., 11 ft. deep	88.50*	78.00*
18	brick manholes, 5 ft. diam., 9 ft. deep	75.00	70.00
18	concrete block manholes, 5 ft. diam., 9 ft. deep	83.00*	70.00*
7	brick manholes, 4 ft. diam., 13 ft. deep	89.00	85.00
7	concrete block manholes, 4 ft. diam., 13 ft. deep	68.00*	62.00*
1	brick manhole, 4 ft. diam., 15 ft. deep	90.00	86.00
1	concrete block manhole, 4 ft. diam., 15 ft. deep	70.00*	63.00*
17	brick manholes, 4 ft. diam., 11 ft. deep	78.00	74.00
17	concrete block manholes, 4 ft. diam., 11 ft. deep	65.00*	60.00*
25	brick manholes, 4 ft. diam., 9 ft. deep	68.00	69.00
25	concrete block manholes, 4 ft. diam., 9 ft. deep	60.00*	60.00*
20	brick manholes, 4 ft. diam., 7 ft. deep	62.00	58.00
20	concrete block manholes, 4 ft. diam., 7 ft. deep	58.00*	48.00*
385	cu. yds. trench for 6-in. pipe, 7 ft. deep	.65	.70
765	cu. yds. trench for 6-in. pipe, 13 ft. deep	.97	1.05
2,500	cu. yds. trench for 8-in. pipe, 7 ft. deep	.60	.58
15,000	cu. yds. trench for 8-in. pipe, 9 ft. deep	.90	.86
2,000	cu. yds. trench for 8-in. pipe, 11 ft. deep	.93	.95
525	cu. yds. trench for 8-in. pipe, 13 ft. deep	.97	1.05
2,300	cu. yds. trench for 10-in. pipe, 9 ft. deep	.86	.84
1,136	cu. yds. trench for 10-in. pipe, 13 ft. deep	1.12	1.10
1,136	cu. yds. trench for 10-in. pipe, 11 ft. deep	1.10	1.05
1,913	cu. yds. trench for 12-in. pipe, 11 ft. deep	1.10	1.04
1,938	cu. yds. trench for 15-in. pipe, 11 ft. deep	1.30	1.25
531	cu. yds. trench for 18-in. pipe, 9 ft. deep	1.00	1.30
1,000	cu. yds. trench for 18-in. pipe, 11 ft. deep	1.12	1.09
1,732	cu. yds. trench for 21-in. pipe, 11 ft. deep	1.30	1.10
3,042	cu. yds. trench for 24-in. pipe, 13 ft. deep	2.00	1.55
200	cu. yds. extra excavation	1.50	1.00
200	cu. yds. gravel filling	1.52	1.00
25	cu. yds. extra concrete	9.00	8.50
15,000	ft. lumber left in trench per M	35.00	34.00
	Total	$86,475	$80,101
	Total (alternate bid)	$89,605	$76,668

*SEWERS.—South Omaha, Nebr.—Bids were received on July 30, by E. M. Rohrbough, City Engr., for construction of six sewers. We are officially advised that the bid of the Denver Bldg. & Construction Co. was rejected on account of being informal and not in good faith, and the balance for other reasons. The City Engineer's estimates for this work will be revised and bids asked again until Aug. 20. The itemized bids and City Engineer's estimate of cost of the three largest contracts are here given: (1) City Engineer's estimate, (2) James Jensen, (3) Dan Hannon, (4) National Construction Co., (5) Denver Bldg. & Construction Co.

BIDS RECEIVED ON JULY 30, AT SOUTH OMAHA, NEBR., FOR BUILDING THREE SEWERS.

MUD CREEK MAIN SEWER.

Quantity	Item	(1)	(3)	(4)	(5)
2,040	ft. 8¾-ft. concrete sewer	$12.00	$13.07	$13.50	$10.75
1,908	ft. 11-ft. concrete sewer	17.75	20.07	18.75	16.50
1,421	ft. 10½-ft. concrete sewer	17.00	18.54	18.00	15.25
28	ft. 6½-ft. concrete sewer	8.00	8.00	9.50	7.75
100	ft. 8-ft. concrete sewer ("a")	18.35	23.70	20.00	17.00
408	ft. 10½-ft. concrete sewer ("b")	30.00	42.40	31.50	26.50
601	ft. 8-ft. concrete sewer	13.00	13.82	25.50	11.50
1,987	ft. 8-ft. concrete sewer ("B")	18.25	23.54	24.50	16.50
1,987	ft. 8-ft. brick sewer, "A"	....	....	....	17.00
98	ft. manholes, 1st 10 ft.	2.20	3.00	3.50	2.15
29	ft. manholes, 2d 10 ft.	3.50	3.00	4.00	3.40
20,000	lbs. Cast-iron	0.04	0.04	0.04	0.04
——	lbs. wrought-iron	0.05	0.05	....	....
110	cu. yds. concrete, extra	7.00	7.00	8.00	7.00
——	cu. yds. broken stone, extra	3.00	3.00	....	....
——	cu. yds. sand	1.50	1.50	....	....
900	lin. ft. piling	0.40	0.40	0.45	0.35
7,000	ft. B. M. lumber, pine	35.00	35.00	40.00	32.00
——	ft. B. M. lumber, oak	35.00	35.00	....	....
2,000	cu. yds. grading, extra	0.20	0.20	0.50	0.20
	Totals	$143,771	$169,231	$171,842	$130,327

("B") Tunnel section; ("a") section under R. R. track; ("b") section under R. R. tracks.

JETTER CREEK MAIN SEWER.

Quantity	Item	(1)	(3)	(4)	(5)
1,295	ft. 36-in. vitrified pipe	....	$3.63	$4.25	$3.40
383	ft. 30-in. vitrified pipe	$3.60	3.04	4.00	3.10
314	ft. 24-in. vitrified pipe	2.40	2.43	2.75	2.25
323	ft. 18-in. vitrified pipe	1.50	1.27	1.50	1.45
823	ft. 54-in. reinforced pipe	....	5.65	5.50	4.25
1,134	ft. 48-in. reinforced pipe	....	4.86	5.10	3.75
527	ft. 42-in. reinforced pipe	....	4.30	4.75	3.50
1,295	ft. 36-in. reinforced pipe	....	3.63	4.50	3.40
383	ft. 30-in. reinforced pipe	....	3.04	4.25	3.10
314	ft. 24-in. reinforced pipe	....	....	3.50	2.25
1,638	ft. 6½-ft. concrete sewer	8.00	9.48	9.50	7.25
766	ft. 6-ft. concrete sewer	6 40	7.23	8.00	6.00
656	ft. 5½-ft. concrete sewer	6.40	6.97	7.50	5.85
823	ft. 4½-ft. concrete sewer	4.50	5.65	5.50	4.25
1,134	ft. 4-ft. concrete sewer	4.10	4.86	5.10	3.75
527	ft. 3½-ft. concrete sewer	3.70	4.30	4.75	3.50
1,295	ft. 3-ft. concrete sewer	3.60	3.63	4.50	3.40
383	ft. 2½-in. concrete sewer	....	3.04	4.25	3.10
190	ft. manholes, 1st 10 ft.	2.20	3.00	3.25	2.10
59	ft. manholes, 2d 10 ft.	3.50	3.00	4.25	3.25
20,000	lbs. cast-iron	0.04	0.04	0.04	0.04
——	lbs. wrought-iron	0.05	0.05	....	....
100	cu. yds. concrete, extra	7.00	7.00	8.00	7.00
——	cu. yds. broken stone, extra	3.00	3.00	....	....
——	cu. yds. sand	1.50	1.50	....	....
——	lin. ft. piling	0.40	0.40	....	....
——	ft. B. M. lumber, pine	35.00	35.00	....	....
——	ft. B. M. lumber, oak	35.00	35.00	....	....
——	cu. yds. grading, extra	0.20	0.20	....	....
	Totals	$41,911	$47,351	$50,274	$38,760

N ST. GULCH MAIN SEWER.

Quantity	Item	(1)	(2)	(3)	(4)	(5)
1,000	ft. 7-ft. concrete sewer	$9.00	$9.75	$8.62	$10.50	$7.25
1,556	ft. 6½-ft. concrete sewer	8.50	9.53	8.87	9.76	7.00
790	ft. 6-ft. concrete sewer	8.80	8.63	7.47	10.00	7.20
72	ft. manholes, 1st 10 ft.	2.20	2.75	3.00	3.25	2.10
30	ft. manholes, 2d 10 ft.	3.30	2.75	4.00	4.25	3.25
17	ft. manholes, 3d 10 ft.	3.30	3.00	5.00	4.25	3.25
10	ft. manholes, 4th 10 ft.	4.00	3.00	5.00	4.50	3.75
10	ft. manholes, 5th 10 ft.	4.00	3.00	5.00	4.50	3.75
10	ft. manholes, 6th 10 ft.	4.00	3.00	5.50	4.50	3.75
10	ft. manholes, 7th 10 ft.	4.00	3.00	5.50	4.50	3.75
8,000	lbs. cast-iron	0.04	0.03	0.04	0.04	0.04
——	lbs. wrought-iron	0.05	0.05	0.05	....	....
100	cu. yds. concrete, extra	7.00	7.00	7.00	8.00	7.00
——	cu. yds. broken stone, extra	3.00	....	3.00	....	....
——	cu. yds. sand	1.50	....	1.50	....	....
——	ft. lin. piling	0.40	....	0.40	....	....
——	ft. B. M. lumber, pine	35.00	....	35.00	....	....
——	ft. B. M. lumber, oak	....	....	35.00	....	....
——	cu. yds. grading, extra	0.20	....	0.20	....	....
	Totals	$30.671	$32.788	$29,974	$35,305	$25,304

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

BATTLESHIPS. — Brazil. — ARMSTRONG, WHITWORTH & CO., LTD., of Newcastle-on-Tyne, England, have contract to build for Brazil three sister battleships, each to cost more than $5,000,000.

TRAMWAY EQUIPMENT. — Argentina.— The town of Concepcion del Tio, Argentina, has appointed a commission to arrange for the construction of a steam tramway for El Tio station to the town.

OAK SLEEPERS.—La Paz, Bolivia.—The Sindicato de Obras Publicas Chileno, the contractors for the Arica-La Paz Railway, are calling for tenders for the supply of 700,000 oak sleepers. A wharf is also to be erected at Arica, Peru.

RAILWAY.—Ecuador.—Bids are asked until Sept. 15 by the Subsecretario del Ministerio de Obras Publicas, Quito, for construction of a steam or electric traction railway from Ambato to Arajun River. All materials for this work may be imported free of duty.

BRIDGE SUPERSTRUCTURES.—Brazil.— Bids are requested until Aug 31 for supplying 34 metallic superstructures for bridges on the Central Railway of Brazil. Deposit, 5.000 milreis (about $2,500). Apply to Intendencia da Estrada de Ferro de Central do Brazil, Rio Janeiro.

RAILWAY. — Siberia. — The New York "Tribune" states that "in accordance with an order issued by the Emperor of Russia, the American syndicate represented by Baron Loicq de Lobel is authorized to begin work on the Transsiberian-Alaska railroad project. This project is to build a railroad from Siberia to Alaska by bridging and tunneling under Bering Strait. It is said that the enterprise will be capitalized at $250,000,000 or $300,000,000, and that the money centers of Russia, France and the United States will be asked to take bonds."

BREAKWATER AND QUAY.—Spain.—Bids are asked until Aug. 28 by the Directorate General of Public Works, Madrid, for the construction of a breakwater and quays at the port of Ibiza, Balearic Isles, at the estimated cost of 1,168,901 pesetas (about $233,-780). A deposit of 11,689 pesetas (about $2,337) is required to qualify any bid.

RAILROAD.—Santo Domingo.—The Santo Domingo Railroad Co. has been incorporated in New Jersey to build a railroad on the island of Santo Domingo from Santo Domingo City to San Cristobal, 32 miles. Capital stock, $1,000,000. Incorporators: E. A. Blanton, Jr., Philadelphia, Pa.; Frank Adams, Jr., Charles Bridge and Edwin G. C. Bleakly, all of 317 Market St., Camden, N. J.

QUAY WORKS.—Italy.—The following particulars of quay works, etc., proposed in the neighborhood of Brindisi and Taranto, are taken from the report of the British Consul at Brindisi, S. G. Cocoto: On the northwestern side of the town a new quay is to be built in continuation of the existing Sciabbiche quay, and cargo sheds are to be constructed on the extensive quay space at the Sciabbiche. A second-class quay wall is to be constructed at St. Appolinara, facing the Custom-house. The patent fuel works now at the end of the railway quay are to be removed to the end of the harbor, and on the site they at present occupy cargo sheds are to be built. The partial or entire removal of the Bardet shoal and a portion of the Fico shoal opposite is under consideration. Dredging is to be carried out in various parts of the outer harbor to extend the area of deep water available for vessels seeking shelter. To increase the utility of the port of Taranto, a short breakwater, to cost about £50,000 ($243,000) is to be built from the Taranto Island, nearly opposite the existing breakwater.

DREDGER, BARGES, TUG.—Paraguay.— John N. Ruffin, Amreican Consul at Asuncion, Paraguay, has forwarded a translated copy of the Paraguayan Government specifications for the purchase of a marine dredger, three barges, and a 150-HP. tug. This set of specifications will be loaned by the Bureau of Manufactures, Dept. Commerce and Labor, at Washington, D. C., to American shipbuilders in the order of their application. Mr. Ruffin makes the following remarks: Those wishing to bid under the conditions named by the Government should name some one here to present their proposals, who should have authority bearing their signatures, duly authenticated before the Paraguayan consul in the United States in whatever section they may be. The requirements as to stamped paper, etc., can be filled here by the person appointed to represent the interested builder or contractor. Bids will be opened on Aug. 31, at 2 p. m. Only the proposals of shipbuilders of recognized confidence and responsibility to the satisfaction of the minister will be taken into consideration.

We are advised by Mr. Ruffin that other works projected at Asuncion are the drainage of the city and electric lighting and power system. There are about 60,000 inhabitants.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

PENITENTIARY. — Zacatecas. — ALFRED GILES, of San Antonio, Tex., the architect who prepared the plans, has been awarded the contract for the construction of the large state penitentiary at Zacatecas.

RAILS.—Mexico.—The two Canadian steel works, the DOMINION and the ALGOMA, have been awarded contracts for steel rails for the National Transcontinental Ry. Co., aggregating $2,200,000. The contract is for 65.000 tons of rails.

RAILS.—Mexico.—SAMUEL BROS., of New York, a branch house of Samuel Bros. & Co., of Mexico City, have placed an order for 50,000 tons of steel rails with a Spanish steel plant in Bilboa, Spain, for the extensions of the Cananea, Rio Yaqui & Pacific Ry.

WATER PIPE.—Monterey, Nuevo Leon.— More than 10,000 tons of cast-iron pipe for the Monterey water-works have been contracted for by D. Y. STEWART & CO., limited, of Glasgow, represented in Mexico by the firm of Lundholm & Flores, of the City of Mexico.

FLOUR MILL.—City of Mexico.—VALENTIN ELCORO & CO., of the City of Mexico, have been awarded the contract for a complete modern flour mill, of a daily capacity of 500 barrels, to be erected in the city for Messrs. Echandi, Oteiza & Iriarte. The motive power will consist of two Acme gas engines and suction gas producers; one of 165 HP. will drive the mill, and the other of 50 HP. will run the elevator.

HYDRO-ELECTRIC PLANT. — Jalisco. — SALVADOR UGARTE, of the City of Guadalajara, has been awarded the contract for the installation of machinery to raise the capacity of the hydro-electric plant owned by Apolonio Garcia, of Guadalajara, from its present capacity of 200 HP. to 500 HP. The plant is located on Mr. Garcia's Potrero hacienda, near the town of Tequila, which town is furnished with light and power from it.

ELECTRICAL MACHINERY.—Toluca, Mexico.—The firm of O. BRANIFF & CO., City of Mexico, representing the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., has been awarded the contract for supplying the generating equipment for the electrical installation of Molino La Union, of Toluca, State of Mexico. The plant will consist of generating apparatus with a capacity of 1,200 HP. The power will be distributed to the different factories near Toluca, and also for the increase of the lighting of that city.

LOCOMOTIVES. — City of Mexico. — The purchasing department of the Mexican Central Ry. Co. has placed an order with the AMERICAN LOCOMOTIVE CO. for 32 consolidated engines, similar to those now in use on the road. The locomotives will be equipped with oil burners, and used in freight service, and will weigh 179,000 lbs. on the drivers, with a total weight of 198,700 lbs. each. Shortly the company will contract for additional locomotives, and is also in the market for between 14,000 and 15,000 box cars of all classes.

STEEL BRIDGE.—Culiacan, Sinaloa.—Gen. Francisco Cañeda, Governor of State of Sinaloa, is asking for bids on steel work for seven spans of a bridge, 106 ft. center to center of piers, over the Tamazula River. Plans and proposals for bids are on file at offices of Engineering News, New York and Chicago. We are officially advised that "the bridge must be of good materials, and may be of truss, arch or girder types, designed to carry a live load of not less than 100 lbs. per sq. ft. The floor of bridge must be on level with floor of masonry arch approaches on south end, and the bottom of lower chord must be at least 3 ft. above line of extreme high water. Two piers have been partly built, of masonry. It is the intention to finish these, and use steel cylinders sunk to bed rock, and filled with concrete, for the five additional piers. These steel cylinders must accompany the bridge in curved plates, rivet holes punched and fitted, and the whole ready for erection on arrival at bridge site. There should be a machine for excavating inside these cylinders, in form of a clamshell dredge. The material to bed rock from surface is sand and gravel. An engine and boiler large enough to operate this machine should come with plant. The masonry arches were commenced years ago, the intention then being to span the river with stone, but the excessive cost and difficulty of erection compelled a change in plans. An ornamental structure, to a limited extent, that would be somewhat in harmony with the arches already built, will be considered, as the site is situated in the center of a large town and the capital of the state. It must be designed for safety and economy and should be ready as soon as possible. Each bid must state time required to fill contract, and the cost of the whole delivered C. I. F. Altata, a port on this coast. If an agreement can be reached as to cost, time of delivery, design, etc., the Governor is willing to place the amount required in gold to pay, after inspection is made and bridge is received, at any bank in New York that both sides mutually agree upon." Address all communications in the first instance to "Governor," care of Engineering News, 220 Broadway, New York City. (Advertised, Engineering News.)

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 70.

EMBANKMENT.

Boston, Mass.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock P. M. of Monday, September 10, 1906, for building Section 3 of the Boston Marginal Conduit and Section 1 of the Boston Embankment, requiring about 360,000 cu. yds. of earth fill, 200,000 lin. ft. of piles, 6,300 cu. yds. of concrete masonry and 900 cu. yds. of stone masonry.

The embankment will be made along the Boston side of the Charles River between the Cambridge Bridge and Berkeley Street, a distance of about 2,700 feet, and will vary in width from 100 to 300 feet.

Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be ready about August 27, and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, No. 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals.

The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth.

HENRY S. PRITCHETT, Chairman; HENRY D. YERXA, JOSHUA B. HOLDEN, Charles River Basin Commission. HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary. 8-2t

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SEWER SYSTEM.

Covington, Tenn.

Sealed proposals will be received by the City Council of Covington, Tenn., until two o'clock p. m., Tuesday, September 11, 1906, for furnishing material and constructing a system of Sanitary Sewers, embracing about five miles of pipe sewers, and two Septic Tanks.

Plans and specifications will be on file with the Recorder, and at the office of the Engineer about September 1st. For copy of specifications or further information address the Engineer at Nashville, or E. H. McFadden, Secy. Sewer Committee, Covington.

A certified check of $500.00 will be required with each bid. The right is reserved to reject any or all bids.

(Signed) SHERROD SMITH, Mayor.
C. B. McLELLAN, Recorder.
GRANBERY JACKSON, Engr.
8-2t Nashville, Tenn.

ROAD IMPROVEMENTS.

Babylon, N. Y.

Sealed proposals will be received by the Trustees of the Village of Babylon, Suffolk Co., N. Y., at the office of the Village Clerk in said village, until 8 p. m. on Tuesday, September 4th, 1906, when they will be opened.

For Macadamizing, Grading, Curbing, Guttering and otherwise improving a part of Deer Park Avenue, Railroad Avenue, Main Street, and Fire Island Avenue, in said village, also the construction of a storm water drain.

Plans and specifications may be seen at the office of the said Village Clerk or at the office of Oscar Darling, Consulting Engineer, Park Row Building, New York City.

The Trustees of the Village of Babylon reserve the right to reject any and all bids or parts of bids or to accept any bid or part of bid which in their opinion may best serve the interest of said village of Babylon.

LE ROY M. YOUNG,
Village Clerk.
Dated August 21st, 1906. 8-1t

SEWERS.

St. Marys, Ohio.

Sealed bids will be received by the Board of Public Service of the city of St. Marys, State of Ohio, at the office of the Board, until 12 o'clock noon on Wednesday, September 5, 1906, for furnishing the necessary labor and material for the construction and installation of a complete sanitary sewerage system and sewage disposal works within and for said city, according to the plans and specifications on file in said office.

Each bid must contain the full name of every person or company interested in the same, and be accompanied by a certified check on a local bank, or a bond with some approved guaranty or surety company authorized to do business in the state of Ohio, in the sum of One Thousand Dollars ($1,000), as a guaranty that if the bid is accepted a contract will be entered into and its performance properly secured. Should any bid be rejected such check will be forthwith returned to the bidder, and should any bid be accepted such check will be returned upon the proper execution and securing of the contract.

The approximate quantities of labor and materials entering into the construction of said work is as follows, to wit:

55,200 lineal feet of eight inch.
8,540 lineal feet of ten inch.
7,000 lineal feet of twelve inch,
2,550 lineal feet of fifteen inch,
2,000 lineal feet of eighteen inch, and
1,960 lineal feet of twenty inch sewer pipe.
Also
170 manholes.
57 flush tanks.
1 pumping reservoir.
1 pump well, together with all necessary iron pipe, sewer pipe specials, iron pipe specials and other appurtenances. Also
29,229 lineal feet under eight feet.
32,205 lineal feet eight foot to 10 foot.
12,815 lineal feet 10 foot to 12 foot.
2,565 lineal feet 12 foot to 14 foot, and
436 lineal feet 14 foot to 16 foot of excavation and back filling.

Bidders are required to use the printed form, which will be furnished on application of bidder. The right is reserved to reject any and all bids, or to waive any defect in any bid, which defect is in the interest of the city.

Plans and specifications for the above designated work can be seen and had at the office of the Board of Public Service of the City of St. Marys, Ohio, and at the office of the Riggs & Sherman Company, at 613, The Nesby, Toledo, Ohio, at which place instructions to bidders and printed forms for bidding can also be had.

By order of the Board of Public Service of the City of St. Marys, Ohio.

8-1t H. W. STEARNS, Clerk.

U. S. ENGINEER OFFICE, Mobile, Ala., August 22, 1906.—Sealed proposals for dredging in Harbor at Mobile, Ala., will be received at this office until noon, September 22, 1906, and then publicly opened. Information furnished on application. J. B. CAVANAUGH, Capt., Engrs. 8-4t

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SEALED PROPOSALS, in duplicate, indorsed "Proposals for Steel Bridges, Timber Trestle, and Cable Railway Track for U. S. Naval Coal Depot, Narragansett Bay, Bradford, R. I.," will be received at the Bureau of Equipment, Navy Department, Washington, D. C., until 11 o'clock a. m., Wednesday, October 3, 1906, and then and there publicly opened, for the construction and erection, in complete working order, of two steel-girder bridges, one steel through truss bridge, timber trestle, and cable railway track. Plans and specifications can be obtained by application to the Bureau of Equipment. WM. S. COWLES, Chief of Bureau. August 1, 1906. 8-2t

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PAVING.

Newark, N. J.

Sealed proposals will be received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County, for grading and paving with telford pavement, the following roads:

Horseneck Road in the Township of Caldwell, extending from H. L. Cranes corner, Fairfield Road, to the Horseneck Bridge, a distance of 13,150 feet.

Westville Road in the Boroughs of Caldwell and West Caldwell, extending from Bloomfield Avenue to Swamp Road, a distance of 7,700 feet.

The proposals to be submitted to the Committee on Monday, Sept. 10, at 3.00 P. M., at the office of the Committee, Room 314, Court House, Newark, and at no other time or place.

Each proposal to be accompanied with a certified check for five (5) per cent. of the amount bid as surety for the execution of the necessary contract, and is to be endorsed on the outside with the name of the bidder and the work proposed to be done.

Plans and specifications may be seen at the office of the Committee at 196 Market Street, Newark, till August 28, and after that time at the Room 314, Court House, Newark.

The Committee reserves the right to reject any or all bids.

THOMAS McGOWAN,
8-3t Director.

WATER-WORKS.

White Plains, N. Y.

Sealed bids or proposals will be received by the Board of Water Commissioners of the Village of White Plains, N. Y., at their office, Eastern State General Building, White Plains, N. Y., until 7.30 o'clock P. M. on Saturday, Sept. 8, 1906, for excavating and back filling trenches for a 14" water main, gates, hydrants and specials, upon the following streets in the Village of White Plains, N. Y., viz.:

Railroad Ave.,
Kensico Ave.,
Lenox Ave.,
Beach St.,
Orchard St.

Specifications will be furnished upon application to the office of the board.

The Board reserves the right to reject any or all bids.

BOARD WATER COMMISSIONERS,
Village of White Plains, N. Y.
8-3t Lewis C. Platt, Pres.
Dated, White Plains, N. Y., Aug. 21, 1906.

SANITARY SEWER SYSTEM.

Borough of Carrick, Allegheny, Co., Pa.

Sealed proposals for the construction of twenty-six (26) miles of Sanitary Sewers, from 6 to 24 inches diameter, in the Borough of Carrick, Allegheny County, Pa., will be received until 8 o'clock on Wednesday evening, September 5th, 1906, at the office of the undersigned in the Municipal Building, No. 1806 Brownsville Road, Carrick, Pa., and will be opened and read at a meeting of the Council to be held on the day and at the hour above mentioned. Plans and specifications for same can be seen at the office of the Borough Engineer.

Approximate quantities:

2,126	ft. of	6-in. pipe.
97,602	ft. of	8-in. pipe.
12,225	ft. of	9-in. pipe.
6,151	ft. of	10-in. pipe.
5,743	ft. of	12-in. pipe.
6,359	ft. of	15-in. pipe.
4,657	ft. of	18-in. pipe.
1,134	ft. of	20-in. pipe.
214	ft. of	24-in. pipe.
192	ft. of	8-in. iron pipe.
120	ft. of	10-in. iron pipe.
322	ft. of	20-in. iron pipe.

290 manholes, 292 lampholes, 34 flush tanks.

Cash payments; monthly estimates.

Bidders are required to accompany their proposals with a certified check for $5,000. Council reserves the right to reject any or all bids. Council also reserves the right to hold said bids for consideration for a period not exceeding thirty days.

WM. McCLURG DONLEY,
Borough Engineer.
August 21st, 1906. 8-2t

WEST POINT, N. Y., August 23, 1906.—Sealed proposals, in triplicate, will be received here until 12 o'clock, noon, September 22, 1906, for the construction of an Electrical Subway System, as per drawings and specifications in this office. The U. S. reserves the right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 8-4t

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SEWERS

Denton, Md.

Sealed proposals will be [illegible] eived by the Commissioners of Denton, [illegible] Denton, Maryland, until 12 o'clock noon, [illegible] dnesday, September 12, 1906, for con[illegible]ting a Sewerage System in the town [illegible] Denton, Md., and furnishing materials f[illegible]ne.

Works will embrace app[illegible]ately 12-10 miles of pipe sewers, from [illegible] to 24 inches in diameter.

Plans and specifications [illegible] be on file, and may be seen at the off[illegible] the Clerk and at the office of the En[illegible]er.

The right is reserved to [illegible] any or all bids.

C. LESLIE W[illegible]S, Clerk.
Engineer:
WILLIAM D. UHLER,
8-2t Dento[illegible] Md.

Situations Wanted

SUPERINTENDENT, age 37, [illegible]crete and steel a specialty; several [illegible]s' experience in full charge on cont[illegible]ts employing large force; have operated stone crushers, gravel separat[illegible], concrete mixers, cable and tramways, [illegible]r compressors, pumps, and all kinds of engines and derricks; at liberty about Sept. 15. Address "R. B. 8," Engineering News, New York. 8-4t

SITUATIONS OPEN

WANTED—A young man for foreman and superintendent small structural and bridge shop. Write fully. Address 348 Bee Building, Omaha, Neb. 8-2t

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WANTED—Structural draftsman, technical graduate, experienced, competent to design buildings. To a high-grade man this is a splendid opportunity to connect with old-established steel concern offering good chance for advancement. Location Chicago. State fully experience, salary expected, etc. Address "X. 8," Engineering News, New York. 8-1t

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WANTED.—A civil engineer, experienced in estimating and laying out foundations for buildings, New York City. A good, live man wanted. Address "X. A. 8," Engineering News, New York. 8-1t

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WANTED.—Draftsmen; first-class structural detailers and checkers; permanent positions and high salaries to satisfactory men. RITER-CONLEY MFG. CO., 55 Water St., Pittsburg. 8-1t

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DRAFTSMAN WANTED with knowledge hydraulic engineering; experience with automatic sprinklers preferred. Address "S. B. 8," Engineering News, New York. 8-1t

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SUPERINTENDENT or foreman on building construction near New York City; good salary and permanent position to right man; state age, experience and references. Address "Z. B. 8," Engineering News, New York. 8-2t

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WANTED.—Several first-class structural draftsmen for office in New York City. Address "P. B. 8," Engineering News, New York. 8-1t

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HELP WANTED.—Draftsmen, first-class, thoroughly up-to-date on modern cement machinery and mill installation; location near New York City. Address "W. B. 8," Engineering News, New York. 8-2t

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WANTED.—Young man about 21 years old to run transit at Flushing, N. Y.; salary $60. Address "X. B. 8," Engineering News, New York. 8-1t

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WANTED.—Architectural draftsmen. Office of Engineer of B. & B., Erie R. R. Co., 11 Broadway, Room 468. 8-1t

Miscellaneous Wants

WANTED
SEVERAL SECOND-HAND
AIR COMPRESSORS

straight line, single or two-stage machines, for high pressures; must be in first-class condition and furnish 300 feet free air or more each per minute. Give full particulars. Address "A. B. 8," Engineering News, New York. 8-1t

FOR SALE

FOR SALE.

One 20-H.P. High-Speed
Woodbury, Booth & Pryor Engine

also one 40-HP. high-speed Chandler & Taylor engine. Address for particulars, WHITMORE, RAUBER & VICINUS, Rochester, N. Y. 8-2t

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FOR SALE.

One Model 60 Marion

2½-yard dipper; new. Man furnished to demonstrate same from factory. One Vulcan, new, 1906 Model, Class "C." Both for immediate delivery.

C. B. LANHAM,
Pyle Bldg., Bristol, Tenn. 8-2t